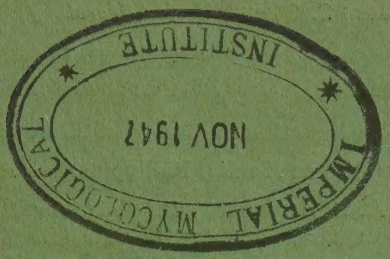
VOL. 76, No. 4 APRIL, 1947



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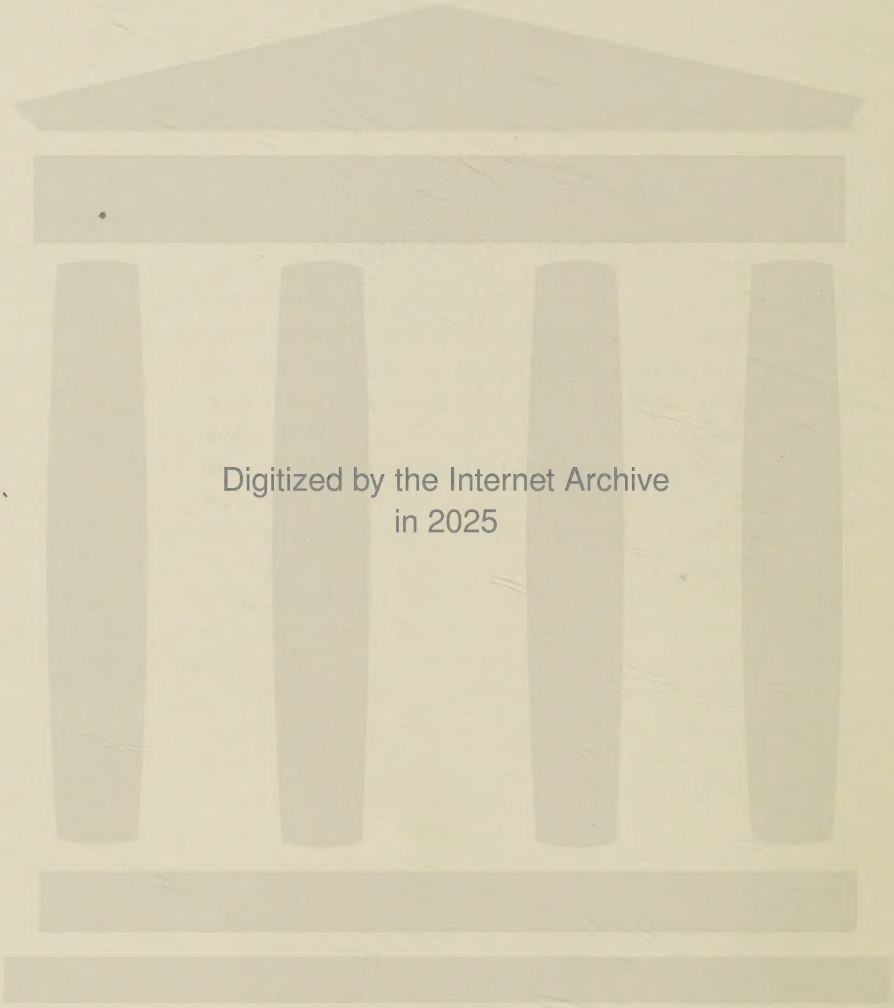

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A SUMMARY OF THE PARASITIC WORMS REPORTED FROM THE PHILIPPINES [1]

By MARCOS A. TUBANGUI
Of the Bureau of Science, Manila

INTRODUCTION

As far as can be ascertained, the first parasitic worms reported from the Philippines were the nematodes *Auchenacantha corollata* (Schneider, 1866) and *Gnathostoma spinigerum* Owen, 1836, found in the digestive tracts of the flying lemur and the palm civet, respectively. They were both described by Schneider in 1866 under the names *Oxyuris corollatus* and *Filaria radula*, respectively. From that time to 1946, 336 species of helminths were recorded, of which 126 species were trematodes, 54 cestodes, 138 nematodes, 2 Gordiacea and 16 Acanthocephala. These worms were obtained from different kinds of animal hosts representing 18 species of mammals, 51 birds, 10 reptiles, 2 amphibians, 29 fishes, 9 arthropods, and 8 snails.

The greater part of the present Summary had been written before the library of the Bureau of Science and the other scientific libraries in Manila were destroyed in February, 1945, as a result of the war. It was intended to serve as a convenient source of information for those interested in Philippine helminths. Although its usefulness for local workers has been lessened temporarily, because of the present lack of reference facilities, yet it is believed that it will still be of aid in taxonomic and biologic investigations.

The following information is given for each species of parasite: (*a*) the best available scientific name; (*b*) synonyms, if

[1] The author wishes to express his appreciation and thanks to Misses Victoria A. Masiluñgan and Magna de Guzman for their invaluable assistance in the preparation of the list of references.

any; (*c*) location in the (*d*) definitive host or hosts; (*e*) intermediate host or hosts, if any and if the life history is known; (*f*) geographical distribution; and (*g*) references. In order to save space, the latter are indicated by numerals to be used in conjunction with the numbered list of references given at the end of the Summary. Except in rare instances, only papers in which Philippine material is discussed are included in the list of references. Other pertinent information may be found in these papers.

The zoölogical names of the vertebrate hosts, except those of the birds, have been adopted from the following publications: A Check List of Philippine Fishes, by H. A. Roxas and C. Martin (1937); Amphibians and Turtles of the Philippine Islands, by E. H. Taylor (1921); The Lizards of the Philippine Islands, by E. H. Taylor (1922); The Snakes of the Philippine Islands, by E. H. Taylor (1922); and Philippine Land Mammals, by E. H. Taylor (1934). The names of the birds are according to A Manual of Philippine Birds, by R. C. McGregor (1909), and to the latest available literature kindly supplied by Dr. Canuto G. Manuel, of the Division of Natural History Museum, Department of Agriculture and Commerce.

Phylum PLATYHELMINTHES Claus; 1885

Class TREMATODA Rudolphi, 1808

Subclass MONOGENEA Carus, 1863

Order MONOPISTHOCOTYLEA Odhner, 1912

Superfamily GYRODACTYLOIDEA Johnson and Tiegs, 1922

Family DACTYLOGYRIDÆ Bychowsky, 1933

Subfamily TETRAONCHINÆ Monticelli, 1903

Genus ANCYROCEPHALUS Creplin, 1839

ANCYROCEPHALUS MANILENSIS Tubangui, 1931.

Gills of marine fishes (*Amphacanthus virgatus, Anyperodon leucogrammicus* and *Lutjanus* sp.). Manila, Luzon.

Reference: 181.

Genus TETRANCISTRUM Goto and Kikuchi, 1917

TETRANCISTRUM LUTIANI Tubangui, 1931.

Gills of marine fish (*Lutjanus* sp.). Manila, Luzon.

Reference: 181.

Order POLYOPISTHOCOTYLEA Odhner, 1912

Superfamily DICLIPHOROIDEA Price, 1936

Family MICROCOTYLIDÆ Taschenberg, 1879

Subfamily MICROCOTYLINÆ Monticelli, 1892

Genus MICROCOTYLE van Beneden and Hesse, 1863

MICROCOTYLE VIRGATARUM Tubangui, 1931.

Gills of marine fish (*Amphacanthus virgatus*). Manila, Luzon.

Reference: 181.

Subclass DIGENEA Carus, 1863

Order GASTEROSTOMATA Odhner, 1905

Family BUCEPHALIDÆ Poche, 1907

Subfamily PROSORHYNCHINÆ Nicoll, 1914

Genus PROSORHYNCHUS Odhner, 1905

PROSORHYNCHUS TRIANGULARIS Tubangui and Masiluñgan, 1944.

Intestine of fresh-water fish (*Glossogobius giurus*). Manila, Luzon.

Reference: 206.

Order PROSOSTOMATA Ohdner, 1905

Suborder MONOSTOMATA Zeder, 1800

Family CYCLOCOELIIDÆ Kossack, 1911

Subfamily CYCLOCOELIINÆ Stossich, 1902

Genus CYCLOCOELIUM Brandes, 1892

Subgenus POSTPHARYNGEUM Witenberg, 1926

CYCLOCOELIUM (POSTPHARYNGEUM) ORIENTALE var. EURHINA Tubangui, 1932.

Cyclocoelium (*Postpharyngeum*) *obscurum* (Leidy, 1887) of TUBANGUI, 1933.

Cervical air sac of bird (*Tringa totanus eurhinus*). Obando, Bulacan, Luzon.

References: 183, 187.

Family NOTOCOTYLIDÆ Luehe, 1909

Subfamily NOTOCOTYLINÆ Kossack, 1911

Genus NOTOCOTYLUS Diesing, 1839

NOTOCOTYLUS INTESTINALIS Tubangui, 1932.

Intestine of domestic duck and chicken. Manila and Pateros, Rizal; Luzon.

References: 183, 205.

NOTOCOTYLUS NAVIFORMIS Tubangui, 1932.

Intestine of domestic duck. Pateros, Rizal, Luzon.

Reference: 183.

Family OPISTHOTREMATIDÆ Poche, 1926

Genus OPISTHOTREMA Fischer, 1883

OPISTHOTREMA DUJONIS (Leuckart, 1874) Price, 1932.

Monostomum dujonis LEUCKART, 1874.
Opisthotrema cochleare FISCHER, 1883.

Eustachian tube and œsophagus of dugong (*Halicore dugong*). Exact locality not specified.

References: 57, 94, 124.

Family EUCOTYLIDÆ Skrjabin, 1924

Genus TAMERLANIA Skrjabin, 1924

TAMERLANIA BRAGAI Dos Santos, 1934.

Urinary tract (?) of domestic pigeon. Manila, Luzon.

Reference: 205.

Suborder STRIGEATA La Rue, 1926

Superfamily STRIGEOIDEA Railliet, 1919

Family STRIGEIDÆ (Railliet, 1919)

Subfamily STRIGEINÆ Railliet, 1919

Genus STRIGEA Abildgaard, 1790

STRIGEA MCGREGORI Tubangui, 1932.

Intestine of bird (*Butastur indicus*). Calamba, Laguna, Luzon.

Reference: 183.

Genus PARASTRIGEA Szidat, 1928

PARASTRIGEA INTERMEDIA Tubangui, 1932.

Intestine of bird (*Butastur indicus*). Calamba, Laguna, Luzon.

Reference: 183.

Genus PSEUDAPATEMON Dubois, 1936

PSEUDAPATEMON MAMILLIFORMIS (Tubangui, 1932) Dubois, 1936.

Cotylurus mamilliformis TUBANGUI, 1932.

Intestine of bird (*Capella gallinago gallinago*). Calamba, Laguna, Luzon.

References: 51, 183.

IMMATURE FORM

TETRACOTYLE BICOLANDIAE Tubangui, 1933.

Encysted in cervical subcutaneous tissues of bird (*Sterna albitrons sinensis*). Iriga, Camarines Sur, Luzon.

Reference: 187.

Family DIPLOSTOMATIDÆ Poirier, 1886

Subfamily DIPLOSTOMATINÆ Monticelli, 1888

Genus NEODIPLOSTOMUM Railliet, 1919

NEODIPLOSTOMUM ALUCONIS Tubangui, 1933.

Small intestine of bird (*Aluco longimembris*). Obando, Bulacan, Luzon.

Reference: 187.

NEODIPLOSTOMUM BUTASTURINUM (Tubangui, 1932) Dubois, 1936.

Proalaria butasturina TUBANGUI, 1932.

Small intestine of bird (*Butastur indicus*). Calamba, Laguna, Luzon.

References: 51, 183.

Genus POSTHODIPLOSTOMUM Dubois, 1938

POSTHODIPLOSTOMUM LARAI (Refuerzo and Garcia, 1937) Dubois, 1938.

Neodiplostomum larai REFUERZO and GARCIA, 1937.

Small intestine of bird (*Bubulcus ibis coromandus*). Laguna de Bay, Laguna, Luzon.

References: 51a, 131.

Family CYATHOCOTYLIDÆ Poche, 1925

Subfamily PROHEMISTOMATINÆ Lutz, 1935

Genus MESOSTEPHANUS Lutz, 1935

MESOSTEPHANUS FREGATUS Tubangui and Masilungan, 1941.

Small intestine of bird (*Fregatus ariel ariel*). Obando, Bulacan, Luzon.

Reference: 205.

MESOSTEPHANUS HALIASTURUS Tubangui and Masilungan, 1941.

Small intestine of bird (*Haliastur indus intermedius*). Pampanga Province, Luzon.

Reference: 205.

Family PROTERODIPLOSTOMATIDÆ Dubois, 1936

Subfamily PROTERODIPLOSTOMATINÆ Dubois, 1936

Genus PSEUDONEODIPLOSTOMUM Dubois, 1936

PSEUDONEODIPLOSTOMUM CROCODILARUM (Tubangui and Masilungan, 1936) comb. nov.

Neodiplostomum crocodilarum TUBANGUI and MASILUNGAN, 1936.

Intestine of crocodile (*Crocodilus porosus*). Palawan.
References: 51, 199.

Superfamily CLINOSTOMATOIDEA Dollfus, 1931

Family CLINOSTOMATIDÆ (Luehe, 1901) Odhner, 1902

Subfamily CLINOSTOMATINÆ Odhner, 1902

Genus CLINOSTOMUM Leidy, 1856, nec Girard, 1856

CLINOSTOMUM ABDONI Tubangui and Garcia, 1939.

Under tongue of domestic cat. Surigao, Surigao, Mindanao.
Reference: 197.

CLINOSTOMUM DALAGI Tubangui, 1933.

Encysted in eye sockets and pericardium of fresh-water fish (*Ophicephalus striatus*). Los Baños, Laguna, Luzon.
Reference: 187.

CLINOSTOMUM OPHICEPHALI Tubangui and Masilungan, 1944.

Gall bladder (?) of fresh-water fish (*Ophicephalus striatus*). Manila, Luzon.
Reference: 206.

CLINOSTOMUM PSEUDOHETEROSTOMUM Tubangui, 1933.

Encysted between femoral muscles of frog (*Rana magna*). Los Baños, Laguna, Luzon.
Reference: 187.

Genus EUCLINOSTOMUM Travassos, 1928

EUCLINOSTOMUM MULTICAECUM Tubangui and Masilungan, 1935.

Encysted in muscles of fresh-water fish (*Ophicephalus striatus*). Baao, Camarines Sur, Luzon.
Reference: 198.

Superfamily SCHISTOSOMATOIDEA Stiles and Hassall, 1926

Family SCHISTOSOMATIDÆ Looss, 1899

Subfamily SCHISTOSOMATINÆ Stiles and Hassall, 1898

Genus SCHISTOSOMA Weinland, 1858

SCHISTOSOMA JAPONICUM Katsurada, 1904.

Schistosoma cattoi R. BLANCHARD, 1905.

Portal and mesenteric veins of man, cat, dog, pig, cattle, goat, horse and wild rats; also, experimentally, guinea pig,

white rat, mouse and monkey. Molluscan intermediate host, *Oncomelania quadrasi*. Mindoro, Leyte, Samar, and Mindanao.

References: 8, 15, 17, 31a, 48, 49a, 55a, 56a, 56b, 60, 62a, 65, 80, 80a, 80b, 80c, 82, 88b, 98a, 98b, 98c, 109, 110, 117, 119, 126, 127, 135, 159, 165a, 168a, 169, 185, 199a, 209, 232, 236, 236a.

Genus **AUSTROBILHARZIA** Johnston, 1917

AUSTROBILHARZIA BAYENSIS Tubangui, 1933.

Mesenteric vein of bird (*Capella gallinago gallinago*). Bay, Laguna, Luzon.

Reference: 187.

Suborder AMPHISTOMATA (Rudolphi, 1801) Bojanus, 1817

Superfamily PARAMPHISTOMATOIDEA Stiles and Goldberger, 1910

Family PARAMPHISTOMATIDÆ (Fischoeder, 1901)

Subfamily **PARAMPHISTOMATINÆ** Fischoeder, 1901

Genus **PARAMPHISTOMUM** Fischoeder, 1901

PARAMPHISTOMUM ANISOCOTYLEA Faust, 1920.

Rumen of cattle and carabao. Manila, Luzon.

References: 55, 88, 150, 174.

PARAMPHISTOMUM CERVI (Schrank, 1790).

Rumen and bile ducts of cattle. Presumably widely distributed.

Reference: 88.

PARAMPHISTOMUM EXPLANATUM (Creplin, 1847).

Paramphistomum cervi (Zeder, 1790) of TUBANGUI, 1925.

Rumen of cattle and carabao. Manila and Laguna, Luzon.

References: 88, 150, 174, 187.

PARAMPHISTOMUM sp. Boynton and Wharton, 1916.

Stomach of cow. Minalabag, Camarines Sur, Luzon.

Reference: 38.

Genus **COTYLOPHORON** Stiles and Goldberger, 1910

COTYLOPHORON COTYLOPHORUM (Fischoeder, 1901).

Rumen of cattle and carabao. Widely distributed.

References: 88, 150, 174.

Family GASTROTHYLACIDÆ Stiles and Goldberger, 1910

Subfamily **GASTROTHYLACINÆ** Stiles and Goldberger, 1910

Genus **GASTROTHYLAX** Poirier, 1883

GASTROTHYLAX CRUMENIFER (Creplin, 1847).

Rumen of cattle and carabao. Manila, Luzon.

References: 88, 150.

Genus CARMYERIUS Stiles and Goldberger, 1910

CARMYERIUS GREGARIUS (Looss, 1896).

Rumen and reticulum of cattle and carabao. Manila, Luzon.
References: 88, 174.

Genus FISCHOEDERIUS Stiles and Goldberger, 1910

FISCHOEDERIUS ELONGATUS (Poirier, 1883).

Rumen of cattle and carabao. Widely distributed.
References: 88, 150, 174.

Subfamily DIPLODISCINÆ Cohn, 1904

Genus DIPLODISCUS Diesing, 1836

DIPLODISCUS AMPHICHRUS Tubangui, 1933.

Small intestine and rectum of frog (*Rana vittigera*). Los Baños, Laguna, and Novaliches, Rizal; Luzon.
References: 172, 187.

Family GASTRODISCIDÆ Stiles and Goldberger, 1910

Genus GASTRODISCOIDES Leiper, 1913

GASTRODISCOIDES HOMINIS (Lewis and McConnell, 1876).

Gastrodiscus hominis of TUTTLE, 1910.

Intestine of man. Cotabato, Mindanao.
Reference: 212a.

Genus HOMALOGASTER Poirier, 1883

HOMALOGASTER PALONIAE Poirier, 1883.

Homalogaster philippinensis STILES and GOLDBERGER, 1908.

Caecum of cattle. Manila, Luzon.
References: 88, 105, 150, 160, 161, 172, 174.

Family MICROSCAPHIDIIDÆ Travassos, 1922

Genus HEXANGIUM Goto and Ozaki, 1929

HEXANGIUM AFFINUM Tubangui and Masiluñgan, 1944.

Intestine of fish (*Amphacanthus javus*). Manila, Luzon.
Reference: 206.

Suborder DISTOMATA Zeder, 1800

Superfamily FASCIOLOIDEA Stiles and Goldberger, 1910

Family FASCIOLIDÆ Railliet, 1895

Subfamily FASCIOLINÆ Stiles and Hassall, 1898

Genus FASCIOLA Linnæus, 1758

FASCIOLA GIGANTICA Cobbold, 1856.

Bile ducts of cattle, carabao, sheep, goat; also man (?). Snail intermediate hosts: *Lymnaea philippinensis* and *L. swin-*

hoe var. *quadrasi;* also *Mixas cumingiana* (?). Probably widely distributed.

References: 26, 49a, 55, 88, 104, 112, 148, 150, 174.

FASCIOLA HEPATICA Linnæus, 1758.

Distomum hepaticum RETZIUS, 1786.
Fasciola humana GMELIN, 1790.

Bile ducts of cattle, carabao, sheep, goat; also man (?). Snail intermediate host: *Lymnaea philippinensis.* Widely distributed.

References: 26, 49a, 87, 88, 112, 127, 137, 148, 150, 172b, 174.

Subfamily FASCIOLOPSINÆ Odhner, 1911

Genus FASCIOLOPSIS Looss, 1899

FASCIOLOPSIS BUSKI (Lankester, 1857).

Presumably small intestine of man (Chinese). Jolo, Sulu Archipelago.

References: 26, 66a, 145a, 148, 174, 187.

FASCIOLOPSIS sp. Garrison, 1910.

Presumably intestine of cattle (*Bos*). Manila (?), Luzon.

References: 66a, 88, 174.

Superfamily ECHINOSTOMATOIDEA (Faust, 1929)

Family ECHINOSTOMATIDÆ Looss, 1902

Subfamily ECHINOSTOMATINÆ Looss, 1899

Genus ECHINOSTOMA (Rudolphi, 1809) Dietz, 1910

ECHINOSTOMA BATANGUENSIS Tubangui, 1932.

Small intestine of bird (*Gallinula chloropus lozanoi*). Batangas, Batangas, Luzon.

Reference: 183.

ECHINOSTOMA CHARADRII Tubangui and Masiluñgan, 1935.

Intestine of bird (*Pluvialis dominica fulva*). Baao, Camarines Sur, Luzon.

Reference: 198.

ECHINOSTOMA CHLOROPODIS var. **PHILIPPINENSIS** Tubangui, 1932.

Small intestine of bird (*Gallinula chloropus lozanoi*). Los Baños, Laguna, Luzon.

Reference: 183.

ECHINOSTOMA GUERREROI (Tubangui, 1931) comb. nov.

Euparyphium guerreroi TUBANGUI, 1931.

Small intestine of rat (*Rattus norvegicus*). Manila, Luzon.

References: 179, 182.

ECHINOSTOMA ILOCANUM (Garrison, 1908) Odhner, 1911.

Fascioletta ilocana GARRISON, 1908.
Euparyphium ilocanum (Garrison, 1908) TUBANGUI, 1931.

Small intestine of man and rat (*Rattus norvegicus*). First snail intermediate host: *Anisus* (*Gyraulus*) *convexiusculus;* second intermediate hosts: *Pila luzonica* and other fresh-water snails. Northwestern Luzon, including Manila and Zambales Province; Mindoro; Leyte and Mindanao.

References: 49a, 59, 66, 79, 117b, 127, 179, 182, 208.

ECHINOSTOMA MURINUM (Tubangui, 1931) comb. nov.

Euparyphium murinum TUBANGUI, 1931.

Small intestine of rat (*Rattus norvegicus*). First and second snail intermediate hosts: *Lymnaea* (*Radix*) *swinhoe* var. *quadrasi.* Manila and Baguio, Luzon.

References: 182, 184.

ECHINOSTOMA REVOLUTUM (Froelich, 1802) Dietz, 1909.

Small intestine and cæcum of domestic duck and chicken. First and second snail intermediate hosts: *Lymnaea* (*Radix*) *swinhoe* var. *quadrasi.* Pateros, Rizal; Manila and Baguio, Luzon.

References: 183, 184, 205.

Genus NEPHROSTOMUM Dietz, 1909

NEPHROSTOMUM BICOLANUM Tubangui, 1933.

Small intestine of birds (*Herodias timoriensis* and *Bubulcus ibis coromandus*). Iriga, Camarines Sur, Luzon; Palo, Leyte.

Reference: 187.

Genus ECHINOPARYPHIUM Dietz, 1909

ECHINOPARYPHIUM RECURVATUM (von Linstow, 1873).

Small intestine of domestic duck. Pateros, Rizal, Luzon.

Reference: 183.

Subfamily HIMASTHLINÆ Odhner, 1911

Genus ACANTHOPARYPHIUM Dietz, 1909

ACANTHOPARYPHIUM OCHTHODROMI Tubangui, 1933.

Small intestine of bird (*Ochthodromus mongolus mongolus*). Palo, Leyte.

Reference: 187.

Subfamily ECHINOCHASMINÆ Odhner, 1911

Genus ECHINOCHASMUS Dietz, 1909

ECHINOCHASMUS NOVALICHESENSIS Tubangui, 1932.

Small intestine of bird (*Rallus torquatus torquatus*). Metacercaria in fishes (*Glossogobius giurus, Therapon plumbeus* and *Ophiocara aporos*). Manila and Novaliches, Rizal; Luzon.

References: 183, 214.

Genus EPISTHMIUM Luehe, 1909

EPISTHMIUM GALLINUM Tubangui and Masilungan, 1941.

Bursa Fabricii of domestic chicken. Manila, Luzon.

Reference: 205.

SUBFAMILY UNCERTAIN

Genus PEGOSOMUM von Ratz, 1903

PEGOSOMUM BUBULCUM Tubangui and Masilungan, 1935.

Liver of bird (*Bubulcus ibis coromandus*). Baao, Camarines Sur, Luzon.

Reference: 198.

Superfamily DICROCOELIOIDEA (Faust, 1929)

Family DICROCOELIIDÆ Odhner, 1911

Subfamily DICROCOELIINÆ Looss, 1899

Genus DICROCOELIUM (Dujardin, 1845)

DICROCOELIUM DENDRITICUM (Rudolphi, 1818).

Dicrocoelium lanceolatum (RUDOLPHI, 1803).
Dicrocoelium lanceatum STILES and HASSALL, 1896.

Presumably bile ducts of *Bos* (*taurus* ?). Manila (?), Luzon.

References: 66a, 88, 174.

Genus EURYTREMA Looss, 1907

EURYTREMA OVIS Tubangui, 1925.

Pancreatic duct and fat surrounding rectum of sheep; pancreatic duct and gall bladder of cattle. Manila and Batangas Province, Luzon.

References: 32a, 88, 174, 221.

Genus PLATYNOSOMUM Nicoll, 1914

PLATYNOSOMUM PHILIPPINORUM Tubangui, 1928.

Small intestine of bat (*Scotophilus temminckii*). Los Baños, Laguna, Luzon.

Reference: 177.

Genus **PARADISTOMUM** Kossack, 1910

PARADISTOMUM EXCALOTES Tubangui and Masiluñgan, 1935.

Gall bladder of lizard (*Calotes marmoratus*). San Juan, Rizal, Luzon.

Reference: 198.

PARADISTOMUM GREGARINUM Tubangui, 1929.

Paradistomum magnum TUBANGUI, 1928.

Gall bladder of lizard (*Hemidactylus frenatus*). Los Baños, Laguna, Luzon.

References: 177, 178.

PARADISTOMUM PALOENSIS Tubangui, 1933.

Gall bladder of lizard (*Hydrosaurus pustulosus*). Palo, Leyte.

Reference: 187.

Genus **EUPARADISTOMUM** Tubangui, 1931

EUPARADISTOMUM VARANI Tubangui, 1931.

Gall bladder of monitor (*Varanus salvator*). Los Baños, Laguna, Luzon.

Reference: 180.

Genus **MESOCOELIUM** Odhner, 1911

MESOCOELIUM MEGGITTI Bhalerao, 1927.

Intestine of lizard (*Mabuya multifasciata*). Los Baños, Laguna, Luzon.

Reference: 180.

Family ALLOCREADIIDÆ (Stossich, 1904)

Subfamily ALLOCREADIINÆ Looss, 1902

Genus **ORIENTOCREADIUM** Tubangui, 1931

ORIENTOCREADIUM BATRACHOIDES Tubangui, 1931.

Intestine of fresh-water fish (*Clarias batrachus*). Laguna de Bay, Los Baños, Laguna, Luzon.

References: 180, 206.

Family PLAGIORCHIIDÆ Luehe, 1901

Subfamily PLAGIORCHIINÆ Pratt, 1902

Genus **PLAGIORCHIS** Luehe, 1899

PLAGIORCHIS PHILIPPINENSIS Sandground, 1940.

Lepoderma LOOSS, 1899 of AFRICA and GARCIA, 1935.
Plagiorchis LUEHE, 1899 of AFRICA and GARCIA, 1935.
Plagiorchis sp. AFRICA and GARCIA, 1937.

Small intestine of man. Ilocos Sur Province, Luzon.

References: 10, 14, 19, 26, 139.

Genus **PLAGIORCHOIDES** Olsen, 1937

(= NEOLEPODERMA Mehra, 1937)

PLAGIORCHOIDES POTAMONIDES Tubangui, 1946.

Gall bladder and bile ducts of experimental white rat. Metacercaria in fresh-water crab, *Parathelphusa* (*Barythelphusa*) *mistio*. Naga, Camarines Sur, Luzon.

Reference: 192.

Genus **GLYPTHELMINS** Stafford, 1905

GLYPTHELMINS STAFFORDI Tubangui, 1928.

Intestine of frog (*Rana vittigera*). Los Baños, Laguna, Luzon.

References: 94a, 94b, 118, 177.

Subfamily **STYPHLOTREMATINÆ** Baer, 1924

Genus **STYPHLODORA** Looss, 1899

STYPHLODORA RENALIS Tubangui, 1933.

Kidney of snake (*Python reticulatus*). Manila, Luzon.

Reference: 187.

Subfamily **TELORCHIINÆ** Looss, 1899

Genus **CERCORCHIS** Luehe, 1909

CERCORCHIS CYCLEMIDIS Tubangui, 1933.

Intestine of turtle (*Cyclemis amboinensis*). Novaliches, Rizal, Luzon.

Reference: 187.

Subfamily **PROSTHOGONIMINÆ** Luehe, 1909

Genus **PROSTHOGONIMUS** Luehe, 1899

PROSTHOGONIMUS CUNEATUS (Rudolphi, 1809).

Bursa Fabricii of domestic chicken. Manila, Luzon.

Reference: 205.

PROSTHOGONIMUS PSEUDOPELLUCIDUS Tubangui and Masilungan, 1941.

Bursa Fabricii of domestic chicken. Manila, Luzon.

Reference: 205.

Superfamily HETEROPHYOIDEA (Faust, 1929)

Family HETEROPHYIDÆ Odhner, 1914

Subfamily **HETEROPHYINÆ** Ciurea, 1924

Genus **HETEROPHYOPSIS** Tubangui and Africa, 1938

HETEROPHYOPSIS EXPECTANS (Africa and Garcia, 1935) Tubangui and Africa, 1937.

Heterophyes expectans AFRICA and GARCIA, 1935.

Heterophyopsis continuus (Onji and Nishio, 1924) PRICE, 1940.

Small intestine of dog, cat and bird (*Fregata ariel ariel*). Metacercaria in marine fishes (*Gerris kapas, G. filamentosus,*

Pelates quadrilineatus, Ambassis buruensis, Hemiramphus georgii and *Mugil* sp.). Manila and Obando, Bulacan; Luzon.
References: 10, 125, 127, 130, 193, 213, 214.

Genus **GALACTOSOMUM** Looss, 1899

GALACTOSOMUM ANGUILLARUM (Tubangui, 1933) Tubangui and Africa, 1938.
Haplorchis anguillarum TUBANGUI, 1933.

Intestine of eel (*Anguilla mauritiana*). Palo, Leyte.
References: 43, 187, 193.

Genus **DIORCHITREMA** Witenberg, 1929

DIORCHITREMA PSEUDOCIRRATA Witenberg, 1929.

Intestine of man, dog and cat. Metacercaria in fishes (*Anabas testudineus* and *Mugil* sp.). Manila, Luzon.
References: 10, 19, 23, 26, 49a, 127, 130, 213, 214, 215.

Genus **STICTODORA** Looss, 1899

STICTODORA GUERREROI Garcia and Refuerzo, 1936.

Small intestine of cat, dog and bird (*Larus ridibundus*). Metacercaria in fishes (*Ambassis buruensis* and *Hemiramphus georgii*). Biñan, Laguna, Luzon.
References: 62, 127, 213, 214, 215.

STICTODORA MANILENSIS Africa and Garcia, 1935.

Small intestine of cat, dog and bird (*Larus ridibundus*). Metacercaria in fishes (*Ambassis buruensis, Gerris filamentosus* and *Pelates quadrilineatus*). Manila, Luzon.
References: 10, 20, 127, 130, 212b, 213, 214, 215.

STICTODORA PALMIFERA Vasquez-Colet, 1943.

Presumably small intestine of dog (experimental infection). Metacercaria in fish (*Sillago maculata*). Manila, Luzon.
Reference: 212b.

STICTODORA SAWAKINENSIS Looss, 1899.

Small intestine of cat and dog. Manila, Luzon.
References: 62, 127, 130.

Genus **MICROLISTRUM** Braun, 1901

MICROLISTRUM sp. Vasquez-Colet and Africa, 1938.

Intestine of cat (experimental infection). Metacercaria in fish (*Ambassis buruensis*). Manila, Luzon.
Reference: 213.

Genus **APOPHALLUS** Luehe, 1909

APOPHALLUS ECCENTRICUS Africa and Garcia, 1935.

Small intestine of dog. Biñan, Laguna, Luzon.
References: 11, 127, 130.

Subfamily CENTROCESTINÆ Looss, 1899

Genus CENTROCESTUS Looss, 1899

CENTROCESTUS FORMOSANUS (Nishigori, 1924).

Stamnosoma formosanum NISHIGORI, 1924.

Intestine of birds (*Bubulcus ibis coromandus* and *Ardea purpurea manilensis*); also cat and dog (experimental infections). Metacercaria in fishes (*Anabas testudineus, Glossogobius giurus, Ophicephalus striatus* and *Therapon plumbeus*). Manila, Luzon.

References: 213, 214, 215.

Genus PYGIDIOPSIS Looss, 1907

PYGIDIOPSIS GENATA Looss, 1907.

Intestine of cat and dog (experimental infections). Metacercaria in fish (*Mugil* sp.). Manila, Luzon.

Reference: 213.

PYGIDIOPSIS MARIVILLAI Refuerzo and Garcia, 1937.

Intestine of bird (*Haliæetus leucogaster*) and dog (experimental infection). Metacercaria in fish (*Mugil* sp.). Manila, Luzon.

References: 132, 213.

Genus PHAGICOLA Faust, 1920

PHAGICOLA PITHECOPHAGICOLA Faust, 1920.

Ascocotyle pithecophagicola (Faust, 1920) FAUST and NISHIGORI, 1926.
Parascocotyle pithecophagicola (Faust, 1920) WITENBERG, 1929.
Ascocotyle (*Phagicola*) *pithecophagicola* (Faust, 1920) TRAVASSOS, 1930.

Intestine of monkey-eating eagle (*Pithecophaga jefferyi*). Exact locality not specified.

References: 55, 56, 123, 170, 233, 234.

Subfamily CERCARIOIDINÆ Witenberg, 1929

Genus SCAPHANOCEPHALUS Jaegerskioeld, 1903

SCAPHANOCEPHALUS ADAMSI Tubangui, 1933.

Immature; encysted in fins and under scales of fish (*Lepidaplois mesothorax*). Manila, Luzon.

Reference: 187.

Subfamily HAPLORCHIINÆ Looss, 1899

Genus HAPLORCHIS Looss, 1899

HAPLORCHIS CALDERONI (Africa and Garcia, 1935) Africa, 1938.

Monorchotrema calderoni AFRICA and GARCIA, 1935.

Small intestine of cat, dog and man. Metacercaria in fishes (*Ophicephalus striatus, Glossogobius giurus, Gerris filamentosus,*

Creisson validus, Amphacanthus javus, Pelates quadrilineatus, Eleutheronema tetradactyla, Hemiramphus georgii, Ambassis buruensis, Atherina balabacensis and *Mugil* sp.). Biñan, Laguna, Luzon. (Note: This trematode has been placed by Price [1940] in the genus *Procerovum* of the subfamily Stellantchasminae.)

References: 5, 11, 26, 49a, 125, 127, 130.

HAPLORCHIS PUMILIO (Looss, 1896) Looss, 1899.

Monorchotrema taihokui NISHIGORI, 1924.

Small intestine of cat and dog (experimental infections). Metacercaria in fishes (*Ophicephalus striatus, Glossogobius giurus, Therapon plumbeus, Gerris filamentosus, Amphacanthus javus* and *Ambassis buruensis*). Manila, Luzon.

References: 5, 26, 127, 130, 214.

HAPLORCHIS SISONI Africa, 1938.

Small intestine of cat and dog (experimental infections). Metacercaria in fish (*Therapon plumbeus*). Manila, Luzon.

References: 5, 214, 215.

HAPLORCHIS TAICHUI (Nishigori, 1924) Chen, 1936.

Monorchotrema taichui NISHIGORI, 1924.

Small intestine of man, cat, dog and bird (*Bubulcus ibis coromandus*). Metacercaria in fresh-water fish (*Ophicephalus striatus*). Manila, Luzon; Leyte.

References: 5, 10, 19, 21, 23, 26, 49a, 127, 130, 214.

HAPLORCHIS VANISSIMA Africa, 1938.

Small intestine of man. Bohol.

References: 5, 26.

HAPLORCHIS YOKOGAWAI (Katsuta, 1932) Chen, 1936.

Monorchotrema yokogawai KATSUTA, 1932.

Monorchotrema taihokui NISHIGORI, 1924 of AFRICA and GARCIA, 1935.

Small intestine of man, cat, dog and bird (*Bubulcus ibis coromandus*); also other birds (*Strix whiteheadi* and *Ardea purpurea manilensis*) and monkey (*Pithecus philippinensis*) (experimental infections). Metacercaria in fishes (*Ophicephalus striatus, Gerris kapas, Amphacanthus javus, Ambassis buruensis, Hemiramphus georgii* and *Mugil* sp.). Manila, Luzon.

References: 4, 5, 6, 10, 19, 21, 22, 23, 24, 25, 26, 49a, 127, 130, 213, 214, 215.

Subfamily NEOCHASMINÆ Van Cleave and Mueller, 1932

Genus NEOCHASMUS Van Cleave and Mueller, 1932

NEOCHASMUS MICROVATUS (Tubangui, 1928) Tubangui and Masilungan, 1944.

Metadena microvata TUBANGUI, 1928.
Metadena ovata TUBANGUI and FRANCISCO, 1930.

Intestine of fresh-water fish (*Glossogobius giurus*). Manila and Los Baños, Laguna; Luzon.

References: 177, 196, 206.

Family MICROPHALLIDÆ Travassos, 1921

Genus SPELOTREMA (Jaegerskioeld, 1901) Rankin, 1940

SPELOTREMA BREVICAECA (Africa and Garcia, 1935) Tubangui and Africa, 1938.

Heterophyes brevicaeca AFRICA and GARCIA, 1935.
Heterophyes brevicaecai AFRICA and GARCIA, 1935 of AFRICA, GARCIA, and DE LEON, 1935.

Intestine of man and bird (*Sterna albitrons sinensis*). Manila, Luzon.

References: 10, 19, 22, 23, 24, 26, 127, 193.

Superfamily OPISTHORCHIOIDEA (Faust, 1929)

Family OPISTHORCHIIDÆ Luehe, 1901

Subfamily OPISTHORCHIINÆ Looss, 1899

Genus OPISTHORCHIS R. Blanchard, 1895

OPISTHORCHIS OPHIDIARUM Tubangui and Masilungan, 1935.

Intestine of snake (*Lapemis hardwickii*). Paombong, Bulacan, Luzon.

Reference: 198.

OPISTHORCHIS WARDI Wharton, 1921.

Opisthorchis felineus (Rivolta, 1884) of authors.
? Opisthorchis noverca MUSGRAVE, 1907.

Bile ducts of cat. Manila and Los Baños, Laguna; Luzon.

References: 26, 49a, 66a, 112, 127, 174, 228.

Genus CLONORCHIS Looss, 1907

CLONORCHIS SINENSIS (Cobbold, 1875) Looss, 1907.

Presumably liver of man (Chinese). Manila and Los Baños, Laguna; Luzon.

References: 26, 48, 127, 148, 157.

Subfamily METORCHIINÆ Luehe, 1909

Genus **METORCHIS** Looss, 1899

METORCHIS CAINTAENSIS Tubangui, 1928.

Intestine of birds (*Rallus rallus philippensis* and *R. striatus striatus*). Cainta, Rizal, Luzon.

Reference: 177.

Family ACANTHOSTOMATIDÆ Poche, 1925

Genus **ACANTHOSTOMUM** Looss, 1899

ACANTHOSTOMUM ATAE Tubangui and Masilungan, 1936.

Intestine of crocodile (*Crocodilus porosus*). Palawan.

Reference: 199.

ACANTHOSTOMUM ELONGATUS Tubangui and Masilungan, 1936.

Intestine of crocodile (*Crocodilus porosus*). Palawan.

Reference: 199.

Superfamily TROGLOTREMATOIDEA (Faust, 1929)

Family TROGLOTREMATIDÆ Odhner, 1914

Subfamily TROGLOTREMATINÆ Baer, 1931

Genus **PARAGONIMUS** Braun, 1899

PARAGONIMUS WESTERMANI (Kerbert, 1878) Braun, 1899.

Encysted in lungs and other organs of man and cat; also laboratory rat (experimental infection). First (snail) intermediate host not yet known; second intermediate host: freshwater crab [*Parathelphusa* (*Barythelphusa*) *mistio*]. Manila (?), Albay (Guinobatan), Camarines Sur (Naga) and Sorsogon (Gubat), Luzon; Samar; Leyte; Mindanao.

References: 39a, 49a, 65, 68, 77, 112, 127, 135, 172b, 174, 191, 191a, 215a.

Superfamily HEMIUROIDEA (Faust, 1929)

Family HEMIURIDÆ Luehe, 1901

Subfamily DINURINÆ Looss, 1907

Genus **ECTENURUS** Looss, 1907

ECTENURUS LEMERIENSIS Tubangui and Masilungan, 1935.

Small intestine of fishes (*Glossogobius giurus* and *Scomberoides* sp.). Manila and Balayan, Batangas; Luzon.

References: 198, 206.

Family AZYGIIDÆ Odhner, 1911

Genus AZYGIA Looss, 1899

AZYGIA PRISTIPOMAI Tubangui, 1928.

Intestine of fresh-water fishes (*Pomadasys hasta* and *Glossogobius giurus*). Manila and Los Baños, Laguna; Luzon.

References: 177, 206.

SUPERFAMILIES UNCERTAIN

Family STOMYLOTREMATIDÆ Poche, 1925

Subfamily STOMYLOTREMATINÆ Travassos, 1922

Genus STOMYLOTREMA Looss, 1900

STOMYLOTREMA ROTUNDA Tubangui, 1928.

Intestine of bird (*Rallus rallus philippensis*). Cainta, Rizal, Luzon.

Reference: 177.

Family LECITHODENDRIIDÆ Odhner, 1911

Subfamily LECITHODENDRIINÆ Looss, 1902

Genus PROSTHODENDRIUM Dollfus, 1931

PROSTHODENDRIUM LUZONICUM (Tubangui, 1928) Bhalerao, 1936.

Lecithodendrium luzonicum TUBANGUI, 1928.

Small intestine of bat (*Scotophilus temminckii*). Los Baños, Laguna, Luzon.

References: 33, 177.

PROSTHODENDRIUM OVIMAGNOSUM (Bhalerao, 1926) Bhalerao, 1936.

Lecithodendrium ovimagnosum BHALERAO, 1926.

Small intestine of bat (*Scotophilus temminckii*). Los Baños, Laguna, Luzon.

References: 33, 177.

Subfamily PLEUROGENETINÆ Looss, 1899

Genus PLEUROGENOIDES Travassos, 1921

PLEUROGENOIDES TAYLORI (Tubangui, 1928) Travassos, 1930.

Pleurogenes taylori TUBANGUI, 1928.

Intestine of frog (*Rana vittigera*). Los Baños, Laguna, Luzon.

References: 94a, 171, 177.

Genus **POSTHORCHIGENES** Tubangui, 1923

POSTHORCHIGENES OVATUS Tubangui, 1928.

Intestine of lizard (*Hemidactylus frenatus*). Los Baños, Laguna, Luzon.

Reference: 177.

Family PSILOSTOMATIDÆ Odhner, 1913

Subfamily PSILOSTOMATINÆ Looss, 1900

Genus **PSILOCHASMUS** (Luehe, 1909) Odhner, 1913

PSILOCHASMUS LONGICIRRATUS Skrjabin, 1913.

Intestine of domesticated duck. Pateros, Rizal, Luzon.

Reference: 183.

Family BRACHYLAEMIDÆ Joyeux and Foly, 1930

Subfamily BRACHYLAEMINÆ Joyeux and Foly, 1930

Genus **BRACHYLAEMUS** Dujardin, 1843

BRACHYLAEMUS MALAYENSIS Tubangui and Masiluñgan, 1941.

Cloaca of domestic chicken. Manila, Luzon.

Reference: 205.

BRACHYLAEMUS sp. (Tubangui, 1928) comb. nov.

Harmostomum sp. TUBANGUI, 1928.

Rectum of bird (*Dasylophus superciliosus*). Los Baños, Laguna, Luzon.

Reference: 177.

Genus **GLAPHYROSTOMUM** Braun, 1901

GLAPHYROSTOMUM RALLINARUM Tubangui, 1932.

Intestine of bird (*Rallina eurizonoides eurizonoides*). Novaliches, Rizal, Luzon.

Reference: 183.

Subfamily LEUCOCHLORIDIINÆ Poche, 1907

Genus **LEUCOCHLORIDIUM** Carus, 1835

LEUCOCHLORIDIUM DASYLOPHI Tubangui, 1928.

Cloaca of bird (*Dasylophus superciliosus*). Los Baños, Laguna, Luzon.

Reference: 177.

LEUCOCHLORIDIUM HYPOTAENIDIARUM Tubangui, 1932.

Intestine of birds (*Rallus striatus striatus* and *Turnix fasciata*). Novaliches, Rizal, Luzon.

Reference: 183.

Subfamily HARMOTREMATINÆ Yamaguti, 1933

Genus **HARMOTREMA** Nicoll, 1914

HARMOTREMA EUGARI Tubangui and Masiluñgan, 1936.

Intestine of snake (*Naja naja philippinensis*). Biñan, Laguna, Luzon.

Reference: 199.

HARMOTREMA RUDOLPHII Tubangui and Masiluñgan, 1936.

Intestine of crocodile (*Crocodilus porosus*). Palawan.

Reference: 199.

Family PHILOPHTHALMIDÆ Travassos, 1921

Subfamily PHILOPHTHALMINÆ Looss, 1899

Genus **PHILOPHTHALMUS** Looss, 1899

PHILOPHTHALMUS PROBLEMATICUS Tubangui, 1932.

Conjunctival sac of domestic chicken. Manila, Luzon.

Reference: 183.

PHILOPHTHALMUS RIZALENSIS Tubangui, 1932.

Conjunctival sac of domestic duck. Pateros, Rizal, Luzon.

Reference: 183.

Family OPECOELIDÆ (Ozaki, 1925) Ozaki, 1928

Genus **OPEGASTER** Ozaki, 1928

OPEGASTER MINIMUS (Tubangui, 1928) Tubangui and Masiluñgan, 1944.

Opecoelus minimus TUBANGUI, 1928.

Intestine of fresh-water fishes (*Glossogobius giurus, Ophicephalus striatus, Therapon argenteus, Clarias batrachus* and *Arius manillensis*). Manila and Laguna de Bay, Laguna, Luzon.

References: 177, 206, 237.

LARVAL TREMATODES (DIGENEA)

MONOSTOME CERCARIA

CERCARIA PARVOMELANIAE Tubangui, 1928.

Liver of snail (*Melania* sp.). Los Baños, Laguna, Luzon.

Reference: 176.

STRIGEID CERCARIA

CERCARIA DORSOCAUDA Tubangui, 1928.

Reproductive glands of snail (*Pila luzonica*). Los Baños, Laguna, Luzon.

Reference: 176.

DISTOME CERCARIAE

CERCARIA LAGUNAENSIS Tubangui, 1928.

Liver of snail (*Pila luzonica*). Los Baños, Laguna, Luzon.

Reference: 176.

CERCARIA MAITIMENSIS Tubangui, 1928.

Liver of snail (*Pila luzonica*). Los Baños, Laguna, Luzon.

References: 176, 199a.

CERCARIA MAQUILINGI Tubangui, 1928.

Liver of snails (*Melania* sp. and *M. asperata philippinensis*). Los Baños, Laguna, Luzon.

Reference: 176.

CERCARIA MELANIASPERATA Tubangui, 1928.

Liver of snails (*Melania asperata philippinensis* and *Melania* sp.). Los Baños, Laguna, Luzon.

Reference: 176.

CERCARIA PHILIPPINDICA Tubangui, 1928.

Liver of snail (*Melania* sp.). Los Baños, Laguna, Luzon.

Reference: 176.

CERCARIA RARISSIMA Tubangui, 1928.

Liver of snail (*Pila luzonica*). Los Baños, Laguna, Luzon.

Reference: 176.

CERCARIA REDICYSTICA Tubangui, 1928.

Reproductive glands of snail (*Pila luzonica*). Los Baños, Laguna, Luzon.

Reference: 176.

Class CESTOIDEA (Rudolphi, 1808) Fuhrmann, 1931

Subclass CESTODA Monticelli, 1892

Order PSEUDOPHYLLIDEA Carus, 1863

Superfamily BOTHRIOCEPHALOIDEA Braun, 1903

Family BOTHRIOCEPHALIDÆ Braun, 1903

Genus BOTHRIOCEPHALUS Rudolphi, 1808

BOTHRIOCEPHALUS TRAVASSOSI Tubangui, 1938.

Intestine of fish (*Anguilla mauritiana*). Palo, Leyte.

Reference: 190.

Family DIPHYLLOBOTHRIIDÆ Luehe, 1910

Subfamily DIPHYLLOBOTHRIINÆ Luehe, 1899

Genus DIPHYLLOBOTHRIUM Cobbold, 1858

DIPHYLLOBOTHRIUM LATUM (Linnæus, 1758) Luehe, 1910.

Dibothriocephalus latus (LINNÆUS, 1758).

Presumably intestine of man. Biñan, Laguna, Luzon and San Jose, Mindoro.

References: 49a, 59, 61, 127, 218.

DIPHYLLOBOTHRIUM MANSONI (Cobbold, 1883).

Bothriocephalus liguloides LEUCKART, 1886.
Dibothriocephalus sp. of WHARTON, 1917.
Diphyllobothrium sp. of TUBANGUI, 1925.

Small intestine of cat and dog. First intermediate hosts: *Cyclops* (*Encyclops*) *serrulatus* and *C.* (*Microcyclops*) *bicolor;* second intermediate hosts: *Rana vittigera* and probably other species of frogs. Manila and Los Baños, Laguna, Luzon; Palo, Leyte.

References: 3, 49a, 127, 130, 141, 174, 190, 224.

Genus BOTHRIDIUM Blainville, 1824

BOTHRIDIUM PITHONIS Blainville, 1824.

Intestine of python (*Python reticulatus*). Manila and Los Baños, Laguna; Luzon.

References: 173, 190.

Genus DUTHIERSIA Perrier, 1873

DUTHIERSIA FIMBRIATA (Diesing, 1850).

Small intestine of lizard (*Varanus salvator*). Los Baños, Laguna and Alabang, Rizal; Luzon.

Reference: 190.

Genus SCYPHOCEPHALUS Riggenbach, 1898

SCYPHOCEPHALUS SECUNDUS Tubangui, 1938.

Intestine of lizard (*Varanus salvator*). Palo, Leyte.

Reference: 190.

LARVAL FORMS

SPARGANUM Diesing, 1850 of Ira-Concepcion, 1935.

Abdominal wall of man. Pulilan, Bulacan, Luzon.

Reference: 81.

SPARGANUM PHILIPPINENSIS Tubangui, 1924.

Peritoneum of palm civet (*Paradoxurus philippinensis*). Los Baños, Laguna, Luzon.

Reference: 173.

Order CYCLOPHYLLIDEA Braun, 1900

Superfamily TAENIOIDEA Zwicke, 1843

Family TAENIIDÆ Ludwig, 1886

Subfamily TAENIINÆ Stiles, 1896

Genus TAENIA Linnæus, 1758

Subgenus TAENIA Linnæus, 1758

TAENIA (TAENIA) HYDATIGENA Pallas, 1766.

Small intestine of dog. Larval stage, *Cysticercus tenuicollis* Rudolphi, 1810, in mesentery of pig. Manila and Porac, Pampanga; Luzon.

References: 31, 141, 151, 174.

TAENIA (TAENIA) PISIFORMIS (Bloch, 1780).

Small intestine of dog. Manila, Luzon.

Reference: 31.

TAENIA (TAENIA) SOLIUM Linnæus, 1758.

Taenia vulgaris WERNER, 1782.

Small intestine of man. Larval stage *Cysticercus cellulosae* (Gmelin, 1790), in pig and man. Widely distributed.

References: 16, 41, 48, 49a, 59, 64, 83, 99, 127, 135, 141, 150, 151, 157, 163, 172b, 174.

Subgenus TAENIARHYNCHUS Weinland, 1858

TAENIA (TAENIARHYNCHUS) SAGINATA Goeze, 1782.

Taenia (Taeniarhynchus) philippina GARRISON, 1907.

Small intestine of man. Larval stage, *Cysticercus bovis*, in cattle. Widely distributed.

References: 41, 48, 49a, 59, 64, 88, 135, 136, 148, 150, 157, 162, 163, 172b, 174, 210a, 230.

Subgenus HYDATIGERA Lamarck, 1816

TAENIA (HYDATIGERA) TAENIAFORMIS (Batsch, 1786).

Taenia crassicollis RUDOLPHI, 1810.

Small intestine of cat. Larval stage, *Cysticercus fasciolaris* Rudolphi, 1808, in liver of rat (*Rattus norgevicus*). Widely distributed.

References: 141, 174, 182.

Genus ECHINOCOCCUS Rudolphi, 1801

ECHINOCOCCUS GRANULOSUS (Batsch, 1786).

Taenia echinococcus (ZEDER, 1803).

Echinococcus polymorphus DIESING, 1850.

Small intestine of dog. Larval stage in lungs and heart of man, cattle and carabao. Manila and Los Baños, Laguna; Luzon.

References: 49a, 64, 66a, 88, 92, 127, 141, 150, 163, 174.

Family ANOPLOCEPHALIDÆ Cholodkovsky, 1902

Subfamily ANOPLOCEPHALINÆ Fuhrmann, 1907

Genus ANOPLOCEPHALA E. Blanchard, 1848

ANOPLOCEPHALA MAMILLANA (Mehlis, 1831).

Small intestine, colon and cæcum of horse. Los Baños, Laguna, Luzon.

References: 88a, 141, 156, 174.

ANOPLOCEPHALA PERFOLIATA (Goeze, 1782).

Small intestine, colon and cæcum of horse. Los Baños, Laguna, Luzon.

References: 88a, 141, 156, 174, 221.

Genus MONIEZIA Blanchard, 1891

MONIEZIA BENEDENI (Moniez, 1879).

Moniezia planissima STILES and HASSALL, 1893.

Intestine of cattle and carabao. Boñgabong, Nueva Ecija, Luzon; Mindanao.

References: 88, 150, 194.

MONIEZIA EXPANSA (Rudolphi, 1810).

Intestine of cattle, sheep, and goat. Mindanao.

References: 49a, 88, 141, 150, 174.

MONIEZA TRIGONOPHORA Stiles and Hassall, 1893.

Intestine of sheep. Manila, Luzon.

References: 141, 150, 174.

Genus BERTIELLA Stiles and Hassall, 1902

BERTIELLA STUDERI (R. Blanchard, 1891).

Intestine of man, dog and monkey (*Pithecus philippinensis*). Manila and Novaliches, Rizal, Luzon; Sara, Iloilo, Panay.

References: 9, 127.

Genus APORINA Fuhrmann, 1903

APORINA DELAFONDI (Railliet, 1892) Baer, 1927.

Intestine of wild pigeon (*Streptopelia bitorquata dussumieri*). Villaviciosa, Abra, Luzon.

Reference: 202.

Subfamily LINSTOWIINÆ Fuhrmann, 1907

Genus Oochoristica Luehe, 1898

OOCHORISTICA EXCELSA Tubangui and Masiluñgan, 1936.

Intestine of lizard (*Mabuya multifasciata*). Los Baños, Laguna, Luzon.

Reference: 200.

Subfamily THYSANOSOMINÆ Fuhrmann, 1907

Genus AVITELLINA Gough, 1911

AVITELLINA BUBALINAE Tubangui and Farinas, 1930.

Small intestine of carabao. Boñgabong, Nueva Ecija, Luzon.

Reference: 194.

Family DAVAINEIDÆ Fuhrmann, 1907

Subfamily DAVAINEINÆ Braun, 1900

Genus DAVAINEA (R. Blanchard, 1891)

DAVAINEA PROGLOTTINA (Davaine, 1860).

Davainea varians SWEET, 1910.
Davainea dubius MEGGITT, 1916.

Small intestine of domestic chicken. Los Baños, Laguna, Luzon.

Reference: 175.

Genus RAILLIETINA Fuhrmann, 1920

Subgenus RAILLIETINA Stiles and Orleman, 1926

RAILLIETINA (RAILLIETINA) DAETENSIS Tubangui and Masiluñgan, 1937.

Intestine of bird (*Treron* sp.). Daet, Camarines Norte, Luzon.

Reference: 202.

RAILLIETINA (RAILLIETINA) GARRISONI Tubangui, 1931.

Small intestine of rat (*Rattus norvegicus*) and man. Manila, Luzon.

References: 7, 129, 182.

RAILLIETINA (RAILLIETINA) MADAGASCARIENSIS (Davaine, 1869).

Small intestine of man. Manila, Luzon.

References: 7, 67, 129.

RAILLIETINA (RAILLIETINA) SEQUENS Tubangui and Masiluñgan, 1937.

Intestine of bird (*Streptopelia bitorquata dussumieri*). Makatipo, Rizal, Luzon.

Reference: 202.

RAILLIETINA (RAILLIETINA) TETRAGONA (Molin, 1858).

Davainea tetragona of authors.

Small intestine of domestic chicken. Widely distributed.

References: 154, 175.

RAILLIETINA (RAILLIETINA) TORQUATA var. RAJAE Tubangui and Masiluñgan, 1937.

Intestine of domestic pigeon. Manila, Luzon.

Reference: 202.

Subgenus PARONIELLA Fuhrmann, 1920

RAILLIETINA (PARONIELLA) BULBULARUM Tubangui and Masiluñgan, 1937.

Intestine of bird (*Pycnonotus goiavier goiavier*). Novaliches, Rizal, Luzon.

Reference: 202.

RAILLIETINA (PARONIELLA) CIRROFLEXA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Lichtensteinipicus funebris*). Sipocot, Camarines Sur, Luzon.

Reference: 202.

RAILLIETINA (PARONIELLA) CORONEA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Corvus coronoides*). Novaliches, Rizal, Luzon.

Reference: 202.

RAILLIETINA (PARONIELLA) CULIAUANA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Oriolus chinensis chinensis*). Palo, Leyte.

Reference: 202.

RAILLIETINA (PARONIELLA) TINGUIANA Tubangui and Masiluñgan, 1937.

Intestine of wild chicken (*Gallus gallus gallus*). Villaviciosa, Abra, Luzon.

Reference: 202.

Subgenus FUHRMANNETTA Stiles and Orleman, 1926

RAILLIETINA (FUHRMANNETTA) ECHINOBOTHRIDA (Megnin, 1880).

Davainea echinobothrida of authors.

Small intestine and cæca of domestic chicken. Widely distributed.

Reference: 175.

Genus COTUGNIA Diamare, 1893

COTUGNIA DIGONOPHORA (Pasquale, 1890).

Taenia digonophora PASQUALE, 1890.

Small intestine of domestic chicken. Los Baños, Laguna, Luzon.

Reference: 175.

COTUGNIA ILOCANA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Streptopelia bitorquata dussumieri*). Villaviciosa, Abra, Luzon.

Reference: 202.

COTUGNIA RIMANDOI Tubangui and Masiluñgan, 1937.

Intestine of domestic pigeon. Manila, Luzon.

Reference: 202.

COTUGNIA sp. Tubangui, 1926.

Small intestine of domestic chicken. Los Baños, Laguna, Luzon.

Reference: 175.

Family DILEPIDIDÆ (Fuhrmann, 1907)

Subfamily DILEPIDINÆ Furhmann, 1907

Genus AMOEBOTAENIA Cohn, 1899

AMOEBOTAENIA SPHENOIDES (Railliet, 1892).

Taenia cuneata VON LINSTOW, 1872.
Taenia sphenoides RAILLIET, 1892.

Small intestine of domestic chicken. Widely distributed.

Reference: 175.

Genus KOWALEWSKIELLA Baczyñska, 1914

KOWALEWSKIELLA BUZZARDIA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Butastur indicus*). Palo, Leyte.

Reference: 202.

Subfamily DIPYLIDIINÆ Stiles, 1896

Genus DIPYLIDIUM Leuckart, 1863

DIPYLIDIUM BUENCAMINOI Tubangui, 1925.

Small intestine of dog. Manila, Luzon.

References: 96, 97, 174, 235.

DIPYLIDIUM CANINUM (Linnæus, 1758).

Taenia canina LINNÆUS, 1758.
Taenia cucumerina BLOCH, 1782.
Dipylidium oerleyi VON RATZ, 1900.
Dipylidium sexcoronatum VON RATZ, 1900.
Dipylidium halli TUBANGUI, 1925.

Small intestine of man, cat and dog. Widely distributed.

References: 49a, 96, 97, 107, 127, 130, 141, 154, 172b, 174, 224, 235.

Family HYMENOLEPIDIDÆ Railliet and Henry, 1909

Subfamily HYMENOLEPIDINÆ Ransom, 1909

Genus HYMENOLEPIS Weinland, 1858

HYMENOLEPIS CARIOCA (Magalhaes, 1898).

Weinlandia carioca (Magalhaes, 1898) MAYHEW, 1923.

Small intestine of domestic chicken. Widely distributed.
Reference: 175.

HYMENOLEPIS CORONOIDIS Tubangui and Masilungan, 1937.

Intestine of bird (*Corvus coronoides*). Palo, Leyte.
Reference: 202.

HYMENOLEPIS DIMINUTA (RUDOLPHI, 1819).

Taenia diminuta RUDOLPHI, 1819.
Hymenolepis flavopunctata WEINLAND, 1858.
Taenia flavomaculata LEUCKART, 1863.

Small intestine of man and rat (*Rattus norvegicus*). Manila, Luzon; Samar; probably widely distributed.
References: 59, 64, 141, 157, 172b, 182.

HYMENOLEPIS NANA (von Siebold, 1852).

Taenia murina DUJARDIN, 1845.
Taenia aegyptiaca BILHARZ, 1852.
Hymenolepis fraterna STILES, 1906.
Hymenolepis longior BAYLIS, 1922.

Small intestine of man and rat (*Rattus norvegicus*). Manila, Luzon; Zamboanga, Mindanao; probably widely distributed.
References: 58, 63, 64, 65, 76, 134, 135, 141, 148, 182, 232.

HYMENOLEPIS PYCNONOTI Tubangui and Masilungan, 1937.

Intestine of bird (*Pycnonotus goiavier goiavier*). Sipocot, Camarines Sur, Luzon.
Reference: 202.

HYMENOLEPIS sp. Tubangui and Masilungan, 1937.

Intestine of bird (*Iole philippinensis philippinensis*). Novaliches, Rizal, Luzon.
Reference: 202.

Genus FUHRMANNIELLA Tseng, 1933

FUHRMANNIELLA CLERCI Tseng, 1933.

Intestine of bird (*Rostratula benghalensis benghalensis*). Novaliches, Rizal, Luzon.
Reference: 202.

Genus DIORCHIS Clerc, 1903

DIORCHIS VISAYANA Tubangui and Masiluñgan, 1937.

Intestine of bird (*Gallinula chloropus lozanoi*). Palo, Leyte.

Reference: 202.

Genus HAPLOPARAXIS Clerc, 1903

HAPLOPARAXIS SANJUANENSIS Tubangui and Masiluñgan, 1937.

Intestine of bird (*Capella gallinago gallinago*). San Juan, Rizal, Luzon.

Reference: 202.

Family ACOLEIDÆ Ransom, 1909

Genus GYROCOELIA Fuhrmann, 1899

GYROCOELIA PARADOXA (von Linstow, 1906).

Intestine of bird (*Ochthodromus mongolus mongolus*). Palo, Leyte.

Reference: 202.

Phylum NEMATHELMINTHES Vogt (Quoted by Carus, 1863)

Class NEMATODA Rudolphi, 1808, Emend. Diesing, 1861

Subclass APHASMIDIA Chitwood and Chitwood, 1933

Order ENOPLIDA Chitwood, 1933

Suborder TRICHURATA Skrjabin, 1916

Superfamily TRICHUROIDEA Railliet, 1916

Family TRICHURIDÆ Railliet, 1915

Subfamily TRICHURINÆ Ransom, 1911

Genus TRICHURIS Roederer, 1761

TRICHURIS OVIS (Abildgaard, 1795).

Large intestine of cattle, sheep and goat. Widely distributed.

References: 38, 88, 150, 174, 221.

TRICHURIS TRICHIURA (Linnæus, 1771).

Trichuris suis (SCHRANK, 1788).
Trichocephalus dispar RUDOLPHI, 1802.
Trichocephalus trichuris of EASTMAN, 1910.

Large intestine of man and pig. Widely distributed.

References: 39, 41, 48, 49a, 52a, 59, 63, 65, 69, 70, 78, 99, 108, 113, 135, 136, 148, 151, 158, 162, 174, 210a, 211, 212a.

TRICHURIS VULPIS (Froelich, 1789).

Trichuris depressiuscula (RUDOLPHI, 1809).

Cæcum of dog. Manila, Luzon.
References: 147, 174.

Subfamily CAPILLARIINÆ Railliet, 1915

Genus CAPILLARIA Zeder, 1800

CAPILLARIA ANNULATA (Molin, 1858).

Thominx annulata (MOLIN, 1858).
Capillaria strumosa (REIBISCH, 1893).

Under epithelium of crop of domestic chicken. Los Baños, Laguna, Luzon.
References: 175, 227.

CAPILLARIA HEPATICA (Bancroft, 1893).

Hepaticola hepatica (BANCROFT, 1893).

Liver of rat (*Rattus norvegicus*). Manila, Luzon.
References: 31b, 182.

CAPILLARIA RETUSA (Railliet, 1893).

Trichosomum retusum RAILLIET, 1893.

Cæca of domestic chicken. Los Baños, Laguna, Luzon.
Reference: 175.

Family TRICHOSOMOIDIDÆ Yorke and Maplestone, 1926

Subfamily TRICHOSOMOIDINÆ Hall, 1916

Genus TRICHOSOMOIDES Railliet, 1895

TRICHOSOMOIDES CRASSICAUDA (Bellingham, 1840).

Trichosoma crassicauda BELLINGHAM, 1840.
Trichosoma muris-decumani RAYER, 1843.

Urinary tract of rat (*Rattus norvegicus*). Manila, Luzon.
Reference: 182.

Subclass PHASMIDIA Chitwood and Chitwood, 1933

Order RHABDITIDA Chitwood, 1933

Suborder RHABDITATA Chitwood, 1933

Superfamily RHABDITOIDEA Travassos, 1920

Family STRONGYLOIDIDÆ Chitwood and McIntosh, 1934

Genus STRONGYLOIDES Grassi, 1879

STRONGYLOIDES RATTI Sandground, 1925.

Strongyloides papillosus (Wedl, 1856) HALL, 1916.

Small intestine of rat (*Rattus norvegicus*). Manila, Luzon.
Reference: 182.

STRONGYLOIDES STERCORALIS (Bavay, 1876).

Strongyloides intestinalis (BAVAY, 1877).

Small intestine of man. Manila, Cavite, Rizal and other provinces in Luzon; San Jose, Mindoro.

References: 39, 41, 49a, 51, 52a, 63, 65, 69, 70, 117a, 135, 136, 148, 162, 163, 218, 229, 230, 231, 232.

STRONGYLOIDES SUIS (Lutz, 1885) von Linstow, 1905.

Presumably small intestine of pig. Manila, Luzon.

References: 49a, 99.

Suborder STRONGYLATA Railliet and Henry, 1913

Superfamily STRONGYLOIDEA (Weinland, 1858)

Family STRONGYLIDÆ Baird, 1853

Subfamily STRONGYLINÆ Railliet, 1893

Genus STRONGYLUS Mueller, 1780

Subgenus STRONGYLUS (Mueller, 1780) Railliet, 1923

STRONGYLUS (STRONGYLUS) EQUINUS Mueller, 1780.

Strongylus armatus RUDOLPHI, 1802.
Sclerostoma equinum BLAINVILLE, 1828.
Strongylus neglectus ROEPPEL, 1897.
Sclerostomum quadridentatum STICKER, 1901.

Large intestine of horse. Widely distributed.

References: 49a, 88a, 156, 174.

Subgenus ALFORTIA Railliet, 1923

STRONGYLUS (ALFORTIA) EDENTATUS (Looss, 1900).

Sclerostoma edentatum LOOSS, 1900.
Strongylus edentatus RAILLIET and HENRY, 1909.

Large intestine of horse. Widely distributed.

References: 49a, 88a, 156, 174.

Subgenus DELAFONDIA Railliet, 1923

STRONGYLUS (DELAFONDIA) VULGARIS (Looss, 1900).

Sclerostoma vulgare LOOSS, 1900.
Sclerostoma bidentatum STICKER, 1901.

Large intestine of horse. Widely distributed.

References: 49a, 88a, 156, 174, 221.

Genus OESOPHAGODONTUS Railliet and Henry, 1902

OESOPHAGODONTUS ROBUSTUS (Giles, 1892)

Large intestine of horse. Los Baños, Laguna, Luzon.

References: 88a, 174.

Genus TRIODONTOPHORUS Looss, 1902

TRIODONTOPHORUS MINOR (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon.
References: 88a, 156, 221.

TRIODONTOPHORUS SERRATUS (Looss, 1900).

Triodontophorus intermedius SWEET, 1909.

Large intestine of horse. Los Baños, Laguna, Luzon.
References: 88a, 156, 174, 221.

Genus GLOBOCEPHALUS Molin, 1861

GLOBOCEPHALUS LONGEMUCRONATUS Molin, 1861.

Small intestine of pig. Los Baños, Laguna, Luzon.
References: 174, 221.

GLOBOCEPHALUS SAMOENSIS (Lane, 1922).

Raillietstrongylus samoensis (LANE, 1922).

Small intestine of pig. Los Baños, Laguna, Luzon.
Reference: 221.

GLOBOCEPHALUS UROSUBULATUS (Alessandrini, 1909).

Small intestine of pig. Los Baños, Laguna, Luzon.
Reference: 221.

Subfamily TRICHONEMINÆ Railliet, 1916

Genus TRICHONEMA Cobbold, 1874

TRICHONEMA AURICULATUM (Looss, 1900).

Cylicostomum auriculatum (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon.
Reference: 174.

TRICHONEMA BICORONATUM (Looss, 1900).

Cylicostomum bicoronatum (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon.
References: 156, 174, 221.

TRICHONEMA CALICATUM (Looss, 1900).

Cylicostomum calicatum (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon.
References: 156, 221.

TRICHONEMA CATINATUM (Looss, 1900).

Cylicostomum catinatum (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon.
References: 174, 221.

TRICHONEMA CATINATUM var. PSEUDOCATINATA (Yorke and Macfie, 1919).

Cylicostomum pseudocatinatum YORKE and MACFIE, 1919.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 174, 221.

TRICHONEMA CORONATUM (Looss, 1900).

Cylicostomum coronatum (LOOSS, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 221.

TRICHONEMA ELONGATUM (Looss, 1900).

Cylicostomum elongatum (LOOSS, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon. References: 174, 221.

TRICHONEMA EUPROCTUM (Boulenger, 1917).

Cylicostomum euproctus BOULENGER, 1917.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 221.

TRICHONEMA GOLDI (Boulenger, 1917).

Cylicostomum goldi BOULENGER, 1917.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 174, 221.

TRICHONEMA GOLDI var. TRIDENTATA (Yorke and Macfie, 1920).

Cylicostomum tridentatum YORKE and MACFIE, 1920.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 221.

TRICHONEMA INSIGNE (Boulenger, 1917).

Cylicostomum insigne BOULENGER, 1917.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 174, 221.

TRICHONEMA LABIATUM (Looss, 1901).

Cylicostomum labiatum (LOOSS, 1901).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 174.

TRICHONEMA LEPTOSTOMUM (Kotlan, 1920).

Cylicostomum leptostomum KOTLAN, 1920.

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 156.

TRICHONEMA LONGIBURSATUM (Yorke and Macfie, 1920).

Cylicostomum longibursatum YORKE and MACFIE, 1920.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 174, 221.

TRICHONEMA MINUTUM (Yorke and Macfie, 1918).

Cylicostomum minutum YORKE and MACFIE, 1918.

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 174.

TRICHONEMA NASSUTUM (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 221.

TRICHONEMA NASSUTUM var. PARVA (Yorke and Macfie, 1918).

Cylicostomum nassutum var. *parvum* YORKE and MACFIE, 1918.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 156, 174, 221.

TRICHONEMA PATERATUM (Yorke and Macfie, 1919).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 221.

TRICHONEMA RADIATUM (Looss, 1900).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 221.

TRICHONEMA ULTRAJECTINUM (Ihle, 1920).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 221.

Genus POTERIOSTOMUM Quiel, 1919

POTERIOSTOMUM IMPARIDENTATUM Quiel, 1919.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 88a, 156, 174, 221.

POTERIOSTOMUM RATZII (Kotlan, 1919).

Large intestine of horse. Los Baños, Laguna, Luzon. Reference: 221.

Genus GYALOCEPHALUS Looss, 1900

GYALOCEPHALUS CAPITATUS Looss, 1900.

Large intestine of horse. Los Baños, Laguna, Luzon. References: 88a, 156, 174, 221.

Subfamily OESOPHAGOSTOMINÆ Railliet, 1915

Genus OESOPHAGOSTOMUM Molin, 1861

OESOPHAGOSTOMUM BIFURCUM (Creplin, 1849) Travassos and Vogelsang, 1932.

Oesophagostomum aculeatum (VON LINSTOW, 1879).
Oesophagostomum apiostomum (WILLACH, 1891).

Large intestine of monkey (*Pithecus philippinensis*). Different places in the Philippines.

References: 93a, 172a, 216.

OESOPHAGOSTOMUM COLUMBIANUM (Curtice, 1890).

Proteracrum columbianum (CURTICE, 1890).

Large intestine of sheep and goat; also cattle. Manila and other places in Luzon; probably widely distributed.

References: 38, 49a, 88, 150, 174, 221.

OESOPHAGOSTOMUM DENTATUM (Rudolphi, 1803).

Large intestine of pig. Widely distributed.

References: 99, 151, 174, 221.

OESOPHAGOSTOMUM LONGICAUDUM Goodey, 1925.

Presumably large intestine of pig. Exact locality not specified.

Reference: 153.

OESOPHAGOSTOMUM RADIATUM (Rudolphi, 1803).

Strongylus radiatus RUDOLPHI, 1803.
Strongylus inflatus SCHNEIDER, 1866.
Strongylus dilatatus RAILLIET, 1884.
Oesophagostomum inflatum (SCHNEIDER, 1866).
Oesophagostomum dilatatum (RAILLIET, 1884).
Oesophagostomum bovis SCHNYDER, 1906.
Proteracrum radiatum RAILLIET and HENRY, 1913.

Ileum and large intestine of cattle and goat. Widely distributed.

References: 49a, 53, 88, 174.

OESOPHAGOSTOMUM VENULOSUM (Rudolphi, 1809).

Large intestine of goat. Widely distributed.

References: 49a, 174, 221.

OESOPHAGOSTOMUM sp. Boynton and Wharton, 1916.

Proteracrum sp. (BOYNTON and WHARTON, 1916).

Cæcum of cow. Minalabag, Camarines Sur, Luzon.

References: 38, 150.

Subfamily STEPHANURINÆ Railliet, Henry and Bauche, 1919

Genus STEPHANURUS Diesing, 1839

STEPHANURUS DENTATUS Diesing, 1839.

Perirenal fat, kidney, liver and other organs of pig. Widely distributed.

References: 34, 35, 49a, 72, 84, 86, 99, 115, 151, 174.

Family ANCYLOSTOMATIDÆ (Looss, 1905) Lane, 1917

Subfamily ANCYLOSTOMATINÆ (Looss, 1905) Stephens, 1916

Genus ANCYLOSTOMA (Dubini, 1843) Creplin, 1845

ANCYLOSTOMA BRAZILIENSE de Faria, 1910.

Ancylostoma ceylanicum Looss, 1911.

Small intestine of cat, dog and man. Widely distributed.

References: 2, 49, 49a, 100, 101, 103, 127, 146, 174, 195.

ANCYLOSTOMA CANINUM (Ercolani, 1859).

Small intestine of dog and cat; also man. Widely distributed.

References: 49a, 101, 127, 164, 174, 195, 224.

ANCYLOSTOMA DUODENALE (Dubini, 1843).

Ankylostomum duodenale (Dubini, 1843).
Agchylostoma duodenale Dubini, 1843.
Dochmius duodenalis (Dubini, 1843).

Small intestine of man. Widely distributed.

References: 52a, 59, 65, 90, 91, 101, 103, 127, 135, 148, 158, 162a, 172b, 195, 212a.

Subfamily NECATORINÆ Lane, 1917

Genus NECATOR Stiles, 1903

NECATOR AMERICANUS (Stiles, 1902).

Uncinaria americana Stiles, 1902.
Necator americanus var. *suillus* of Mallari, 1940.

Small intestine of man and pig. Widely distributed.

References: 40, 41, 47, 59, 65, 70, 90, 91, 99, 101, 103, 127, 135, 148, 158, 162a, 172b, 195, 212.

Genus UNCINARIA Froelich, 1789

UNCINARIA PHILIPPINENSIS Chitwood, 1932.

Small intestine of civet (*Paradoxurus philippinensis*). The locality given is Washington, D. C., but it is probable that the host animal picked up the parasite in the Philippines.

Reference: 44.

Genus BUNOSTOMUM Railliet, 1902

BUNOSTOMUM PHLEBOTOMUM (Railliet, 1900).

Monodontus phlebotomus (RAILLIET, 1900).

Small intestine of sheep, goat and cattle. Widely distributed.
References: 38, 88, 150, 174, 221.

BUNOSTOMUM TRIGONOCEPHALUM (Rudolphi, 1808).

Monodontus trigonocephalus (RUDOLPHI, 1808).

Small intestine of sheep, goat and cattle. Widely distributed.
References: 88, 102, 174, 221.

Family DIAPHANOCEPHALIDÆ Travassos, 1919

Genus KALICEPHALUS Molin, 1861

KALICEPHALUS sp. Tubangui and Masiluñgan, 1937.

Intestine of snake (*Naja naja philippinensis*). Alabang, Rizal, Luzon.
Reference: 203.

Family SYNGAMIDÆ Leiper, 1912

Genus SYNGAMUS Siebold, 1836

SYNGAMUS LARYNGEUS Railliet, 1899.

Cyathostoma of ST. JOHN, SIMMONS, and GARDNER, 1929.

Upper respiratory tract (larynx) of cattle and carabao; also man. Widely distributed; human case from Lanao, Mindanao.
References: 36, 49a, 75, 88, 150, 165, 174.

Superfamily TRICHOSTRONGYLOIDEA Cram, 1927

Family TRICHOSTRONGYLIDÆ Leiper, 1912

Subfamily TRICHOSTRONGYLINÆ Leiper, 1908

Genus HYOSTRONGYLUS Hall, 1921

HYOSTRONGYLUS RUBIDUS (Hassall and Stiles, 1892).

Stomach of pig. Los Baños, Laguna, Luzon.
Reference: 151.

Genus HAEMONCHUS Cobb, 1898

HAEMONCHUS CONTORTUS (Rudolphi, 1803).

Abomasum of cattle, sheep and goat. Widely distributed.
References: 38, 49a, 88, 150, 174.

Genus MOLINEUS Cameron, 1923

MOLINEUS ASIATICUS Tubangui and Masiluñgan, 1937.

Small intestine of civet (*Paradoxurus philippinensis*). Balanga, Bataan, Luzon.
Reference: 203.

Genus SCHWARTZIELLA Leroux, 1936

SCHWARTZIELLA NODULOSA (Schwartz, 1928) Leroux, 1936.

Cooperia nodulosa SCHWARTZ, 1928.

In nodules in mucosa of small intestine of carabao. Los Baños, Laguna, Luzon.

References: 71, 93, 155.

Genus MECISTOCIRRUS (Railliet and Henry, 1912)

MECISTOCIRRUS DIGITATUS (von Linstow, 1906).

Small intestine of cattle. Los Baños, Laguna, Luzon.

Reference: 221.

Subfamily HELIGMOSOMINÆ Travassos, 1914

Genus NIPPOSTRONGYLUS Lane, 1923

NIPPOSTRONGYLUS MURIS (Yokogawa, 1920).

Heligmosomum muris YOKOGAWA, 1920.

Small intestine of rat (*Rattus norvegicus*). Manila, Luzon.

Reference: 182.

Superfamily METASTRONGYLOIDEA Cram, 1927

Family METASTRONGYLIDÆ Leiper, 1908

Subfamily METASTRONGYLINÆ Leiper, 1908

Genus METASTRONGYLUS Molin, 1861

METASTRONGYLUS ELONGATUS (Dujardin, 1845).

Bronchi and bronchioles of pig. Los Baños, Laguna, Luzon.

References: 49a, 151, 172b, 174.

METASTRONGYLUS SALMI Gedoelst, 1923.

Bronchi and bronchioles of pig. Manila and Los Baños, Laguna; Luzon.

References: 149, 221.

Genus DICTYOCAULUS Railliet and Henry, 1907

DICTYOCAULUS VIVIPARUS (Bloch, 1782).

Bronchi of cattle. Manila and Los Baños, Laguna; Luzon.

References: 49a, 88, 221.

Suborder OXYURATA Cram, 1927

Superfamily OXYUROIDEA Railliet, 1916

Family OXYURIDÆ Cobbold, 1864

Subfamily OXYURINÆ Hall, 1916

Genus OXYURIS Rudolphi, 1803

OXYURIS EQUI (Schrank, 1789).

Large intestine of horse. Widely distributed.

References: 88a, 145, 156, 174, 221.

Genus ENTEROBIUS Leach, 1853

ENTEROBIUS VERMICULARIS (Linnæus, 1758).

Oxyuris vermicularis (LINNÆUS, 1758).

Cæcum, vermiform appendix and adjacent levels of colon and small intestine of man. Widely distributed.

References: 6a, 39, 41, 41b, 42, 48, 63, 65, 69, 70, 78, 108, 135, 136, 148, 163, 210a, 229, 230, 231, 232.

Genus AUCHENACANTHA Baylis, 1929

(= HOEPPLIUS Chu, 1931)

AUCHENACANTHA BOHOLI (Chu, 1931) Robinson, 1934.

Hoepplius boholi CHU, 1931.

Large intestine and cæcum of flying lemur (*Cyanocephalus volans*). Bilar, Bohol.

References: 46, 136a.

AUCHENACANTHA COROLLATA (Schneider, 1866) Robinson, 1934.

Oxyuris corollatus SCHNEIDER, 1866.

Intestine of flying lemur (*Cyanocephalus volans*). Luzon.

References: 136a, 140.

AUCHENACANTHA HOEPPLII (Chu, 1931) Robinson, 1934.

Hoepplius spinosus CHU, 1931.

Large intestine and cæcum of flying lemur (*Cyanocephalus volans*). Bilar, Bohol.

References: 46, 136a.

Subfamily SYPHACIINÆ Railliet, 1916

Genus SYPHACIA Seurat, 1916

SYPHACIA OBVELATA (Rudolphi, 1802).

Large intestine of rat (*Rattus norvegicus*) and man. Zamboanga, Mindanao.

References: 134, 182.

Subfamily OXYSOMATIINÆ Railliet, 1916

Genus OXYSOMATIUM Railliet and Henry, 1913

OXYSOMATIUM RANAE Walton, 1931.

Intestine of frog (*Rana magna*). Exact locality not specified.

Reference: 219.

Genus PROBSTMAYRIA Ransom, 1907

PROBSTMAYRIA VIVIPARA (Probstmayr, 1865).

Large intestine of horse. Los Baños, Laguna, Luzon.

References: 88a, 156, 174.

Family THELASTOMATIDÆ Travassos, 1929

Subfamily THELASTOMATINÆ Travassos, 1920

Genus THELASTOMA (Leidy, 1849)

THELASTOMA PALMETTUM Chitwood and Chitwood, 1933.

Presumably intestine of cockroach (*Panesthia javanica*). Exact locality not specified.

Reference: 45.

Genus BLATTOPHILA Cobb, 1920

BLATTOPHILA SPHAEROLAIMA var. JAVANICA Chitwood and Chitwood, 1933.

Presumably intestine of cockroach (*Panesthia javanica*). Exact locality not specified.

Reference: 45.

Genus AORURUS Leidy, 1849

AORURUS PHILIPPINENSIS Chitwood and Chitwood, 1933.

Presumably intestine of cockroach (*Panesthia javanica*). Exact locality not specified.

Reference: 45.

Genus LEIDYNEMA Schwenk in Travassos, 1929

LEIDYNEMA NOCALUM Chitwood and Chitwood, 1933.

Presumably intestine of cockroach (*Panesthia javanica*). Exact locality not specified.

Reference: 45.

Genus LEIDYNEMELLA Chitwood and Chitwood, 1933

LEIDYNEMELLA PARACRANIFERA Chitwood and Chitwood, 1933.

Presumably intestine of cockroach (*Panesthia javanica*). Exact locality not specified.

Reference: 45.

Suborder ASCARIDATA Railliet and Henry, 1915

Superfamily ASCAROIDEA Railliet and Henry, 1915

Family ASCARIDÆ Baird, 1853

Subfamily ASCARINÆ (Railliet and Henry, 1912)

Genus ASCARIS Linnæus, 1758

ASCARIS LUMBRICOIDES Linnæus, 1758.

Ascaris suum GOEZE, 1782.

Ascaris suilla DUJARDIN, 1845.

Small intestine of man and pig. Widely distributed.

References: 12, 13, 39, 41, 41a, 48, 49a, 52a, 59, 63, 65, 69, 70, 78, 99, 108, 111, 135, 136, 151, 158, 162, 163, 166, 172b, 174, 210a, 211, 211a, 212a, 222, 223, 229, 230, 231, 232.

Genus NEOASCARIS Travassos, 1927

NEOASCARIS VITULORUM (Goeze, 1782).

Ascaris vitulorum GOEZE, 1782.

Small intestine of cattle and carabao. Widely distributed.
References: 49a, 88, 142, 143, 144, 150, 174.

Genus PARASCARIS Yorke and Maplestone, 1926

PARASCARIS EQUORUM (Goeze, 1782).

Ascaris equorum GOEZE, 1782.

Small intestine of horse. Widely distributed.
References: 49a, 88a, 156, 174, 221.

Genus TOXOCARA Stiles, 1905

TOXOCARA CANIS (Werner, 1782).

Belascaris marginata (RUDOLPHI, 1802).
Toxascaris canis (WERNER, 1782) of authors.
Toxacaris canis of ST. JOHN and SIMMONS, 1931.

Small intestine of dog. Widely distributed.
References: 49a, 127, 130, 142, 164, 174, 224.

TOXOCARA CATI (Schrank, 1788) Brumpt, 1927.

Belascaris cati (SCHRANK, 1788).
Belascaris mystax (ZEDER, 1800).
Toxocara mystax (ZEDER, 1800).

Small intestine of cat. Widely distributed.
References: 127, 142, 174.

Genus TOXASCARIS Leiper, 1907

TOXASCARIS LEONINA (von Linstow, 1902).

Toxascaris limbata RAILLIET and HENRY, 1911.

Small intestine of dog. Manila, Luzon.
Reference: 224.

Subfamily ASCARIDIINÆ Travassos, 1919

Genus ASCARIDIA Dujardin, 1845

ASCARIDIA COMPAR (Schrank, 1790).

Heterakis compar (SCHRANK, 1790).

Small intestine and "stomach" of domestic chicken. Exact locality not specified.
References: 114, 175.

ASCARIDIA GALLI (Schrank, 1788).

Ascaridia perspicillum (RUDOLPHI, 1803).
Heterakis lineata (SCHNEIDER, 1866).
Ascaridia lineata (SCHNEIDER, 1866).

Small intestine of domestic chicken. Widely distributed.
References: 49a, 142, 175.

ASCARIDIA SUBEQUALIS Wehr, 1930.

Intestine of Cuckoo sp. Exact locality not specified.
Reference: 220.

Family HETERAKIDÆ Railliet and Henry, 1914

Subfamily HETERAKINÆ Railliet and Henry, 1912

Genus HETERAKIS Dujardin, 1845

HETERAKIS BERAMPORIA Lane, 1914.

Cæca of domestic chicken. Widely distributed.
References: 152, 175.

HETERAKIS GALLINAE (Gmelin, 1790).

Heterakis papillosa (BLOCH, 1782).
Heterakis vesicularis (FROELICH, 1791).

Cæca of domestic chicken. Widely distributed.
References: 142, 175.

HETERAKIS SPUMOSA Schneider, 1866.

Ganguleterakis gangula LANE, 1914.

Large intestine of rat (*Rattus norvegicus*). Manila, Luzon.
Reference: 182.

Family SUBULURIDÆ Yorke and Maplestone, 1926

Subfamily SUBULURINÆ Travassos, 1914

Genus SUBULURA Molin, 1860

SUBULURA CYNOMOLGI Tubangui and Villaamil, 1933.

Large intestine of monkey (*Pithecus philippinensis*). Novaliches, Rizal and Los Baños, Laguna; Luzon.
Reference: 210.

Family KATHLANIDÆ (Travassos, 1918)

Subfamily KATHLANINÆ Lane, 1914

Genus SPIRONOURA Leidy, 1856

SPIRONOURA DUYAGI Tubangui and Villaamil, 1933.

Cæcum of turtle (*Cyclemis amboinensis*). Novaliches, Rizal, Luzon.
Reference: 210.

Subfamily CISSOPHYLLINÆ Yorke and Maplestone, 1926

Genus CISSOPHYLLUS Railliet and Henry, 1912

CISSOPHYLLUS LEYTENSIS Tubangui and Villaamil, 1933.

Large intestine of lizard (*Hydrosaurus pustulosus*). Palo, Leyte and Novaliches, Rizal, Luzon.

Reference: 210.

Order SPIRURIDA Chitwood, 1933

Suborder SPIRURATA Railliet and Henry, 1915

Superfamily SPIRUROIDEA Railliet and Henry, 1915

Family SPIRURIDÆ Oerley, 1885

Subfamily SPIRURINÆ Railliet, 1915

Genus SPIROCERCA Railliet and Henry, 1911

SPIROCERCA LUPI (Rudolphi, 1809).

Spiroptera sanguinolenta (RUDOLPHI, 1819).
Spirocerca sanguinolenta (RUDOLPHI, 1819).

In nodules in walls of œsophagus, stomach, trachea and aorta of dog. Manila and Los Baños, Laguna; Luzon.

References: 174, 221, 224.

Genus HABRONEMA Diesing, 1861

HABRONEMA MEGASTOMA (Rudolphi, 1819).

Stomach of horse. Manila and Los Baños, Laguna; Luzon.

References: 88a, 156, 168, 174, 221.

HABRONEMA MICROSTOMA (Schneider, 1866).

Stomach of horse. Manila and Los Baños, Laguna; Luzon.

References: 88a, 156, 174, 221.

HABRONEMA MUSCAE (Carter, 1861).

Stomach of horse. Manila and Los Baños, Laguna; Luzon.

References: 88a, 156, 174, 221.

Genus METABRONEMA Yorke and Maplestone, 1926

METABRONEMA CARANXI Tubangui and Masiluñgan, 1937.

Abdominal cavity of fish (*Caranx speciosus*). San Narciso, Tayabas, Luzon.

Reference: 203.

Subfamily ASCAROPSINÆ Alicata and McIntosh, 1933

Genus **ASCAROPS** van Beneden, 1873

ASCAROPS STRONGYLINA (Rudolphi, 1819) Alicata and McIntosh, 1933.

Arduenna strongylina (RUDOLPHI, 1819).

Stomach of pig. Los Baños, Laguna, Luzon.

References: 28a, 151, 174, 221.

Genus **PHYSOCEPHALUS** Diesing, 1861

PHYSOCEPHALUS SEXALATUS (Molin, 1860).

Stomach of pig. Los Baños, Laguna, Luzon.

Reference: 174.

Subfamily GONGYLONEMATINÆ Hall, 1916

Genus **GONGYLONEMA** Molin, 1857

GONGYLONEMA INGLUVICOLA Ransom, 1904.

Under mucous lining of crop of domestic chicken. Los Baños, Laguna, Luzon.

References: 175, 227.

GONGYLONEMA NEOPLASTICUM (Fibiger and Ditlevsen, 1914).

Spiroptera neoplastica FIBIGER and DITLEVSEN, 1914.

Under mucous lining of stomach of rat (*Rattus norvegicus*). Manila, Luzon.

Reference: 182.

GONGYLONEMA sp. Tubangui and Masilungan, 1937.

Under mucous lining of stomach of rodent (*Crateromys schadenbergi*). Nueva Vizcaya, Luzon.

Reference: 203.

Family GNATHOSTOMATIDÆ Blanchard, 1895

Subfamily GNATHOSTOMATINÆ Baylis and Lane, 1920

Genus **GNATHOSTOMA** Owen, 1836

GNATHOSTOMA DOLORESI Tubangui, 1925.

Stomach of pig. Los Baños, Laguna, Luzon.

References: 106, 174.

GNATHOSTOMA HISPIDUM Fedtschenko, 1872.

Stomach of pig. Los Baños, Laguna, Luzon.

References: 49a, 151.

GNATHOSTOMA SPINIGERUM Owen, 1836.

Filaria radula SCHNEIDER, 1866.

Stomach of dog, cat, and civet (*Paradoxurus philippinensis*). First intermediate hosts: *Cyclops* (*Encyclops*) *serrulatus* and

C. (*Microcyclops*) *bicolor;* second intermediate hosts: fishes (*Glossogobius giurus, Ophicephalus striatus* and *Therapon argenteus*). Probably widely distributed.

References: 27, 28, 32, 49a, 127, 133, 140, 174.

Subfamily SPIROXYINÆ Baylis and Lane, 1920

Genus **PROTOSPIRURA** Seurat, 1914

PROTOSPIRURA MURICOLA Gedoelst, 1916.

Ascaris of SCHOBL, 1913.

Stomach of rat (*Rattus norvegicus*). Manila, Luzon.

References: 140a, 182.

Family PHYSALOPTERIDÆ Leiper, 1908

Subfamily PHYSALOPTERINÆ Railliet, 1893

Genus **PHYSALOPTERA** Rudolphi, 1819

PHYSALOPTERA AMPHIBIA von Linstow, 1899.

"Ventricle" and œsophagus of frog (*Rana magna*). Luzon.

Reference: 95.

PHYSALOPTERA PACITAE Tubangui, 1925.

Stomach of cat. Los Baños, Laguna, Luzon.

Reference: 174.

Genus **CHLAMYDONEMA** Hegt, 1910

CHLAMYDONEMA PRAEPUTIALE (von Linstow, 1889).

Physaloptera praeputiale VON LINSTOW, 1889.

Stomach of dog. Manila, Luzon.

Reference: 154.

Family THELAZIIDÆ Railliet, 1916

Genus **THELAZIA** Bosc, 1819

THELAZIA PHILIPPINENSIS Wehr, 1930.

Eye of bird (*Thriponax* sp.). Exact locality not specified.

Reference: 220.

THELAZIA RHODESI (Desmarest, 1827).

Eye of cattle. Widely distributed.

References: 88, 150.

Genus **OXYSPIRURA** Drasche in Stossich, 1897

OXYSPIRURA MANSONI (Cobbold, 1879).

Filaria mansoni COBBOLD, 1879.

Eye of domestic chicken. Widely distributed.

References: 54, 175.

Genus CERATOSPIRA Schneider, 1866

CERATOSPIRA THRIPONAXIS Wehr, 1930.

Eye of bird (*Thriponax* sp.). Exact locality not specified.
Reference: 220.

Family ACUARIIDÆ Seurat, 1913

Subfamily ACUARIINÆ Railliet, Henry and Sisoff, 1912

Genus CHEILOSPIRURA Diesing, 1861

CHEILOSPIRURA HAMULOSA (Diesing, 1851).

Dispharagus hamulosa (DIESING, 1851).
Acuaria hamulosa (DIESING, 1851).

Gizzard of chicken. Intermediate hosts: grasshoppers (*Oxya sinensis* and *Aeolopus tamulus*). Manila and Los Baños, Laguna; Luzon.
References: 128, 175.

CHEILOSPIRURA sp. Africa and Garcia, 1936.

Conjunctiva of man. Biñan, Laguna, Luzon.
Reference: 12a.

Genus DISPHARYNX Railliet, Henry and Sisoff, 1912

DISPHARYNX SPIRALIS (Molin, 1858).

Dispharagus spiralis MOLIN, 1858.
Acuaria spiralis RAILLIET, HENRY, and SISOFF, 1912.

Proventriculus of domestic chicken. Los Baños, Laguna, Luzon.
Reference: 175.

Family RICTULARIIDÆ Railliet, 1916

Subfamily RICTULARIINÆ Hall, 1913

Genus RICTULARIA Froelich, 1802

RICTULARIA PARADOXURI Tubangui and Masiluñgan, 1937.

Intestine of civet (*Paradoxurus philippinensis*). Balanga, Bataan, Luzon.
Reference: 203.

RICTULARIA WHARTONI Tubangui, 1931.

Stomach and small intestine of rat (*Rattus norvegicus*). Manila, Luzon.
Reference: 182.

Family TETRAMERIDÆ Travassos, 1914

Subfamily TETRAMERINÆ Railliet, 1915

Genus TETRAMERES Creplin, 1846

TETRAMERES FISSISPINA (Diesing, 1860).

Tropidocerca fissispina DIESING, 1860.
Tropisurus fissispinus NEUMANN, 1888.

Proventriculus of chicken. Widely distributed.
References: 175, 225, 226.

Superfamily FILARIOIDEA (Weinland, 1858) Stiles, 1907

Family FILARIIDÆ (Cobbold, 1864) Claus, 1885

Subfamily FILARIINÆ Stiles, 1907

Genus PARAFILARIA Yorke and Maplestone, 1926

PARAFILARIA BOVICOLA Tubangui, 1934.

In nodules in skin of cattle. Tanauan, Batangas, Luzon.
References: 85, 88, 188.

Genus HAMATOSPICULUM Skrjabin, 1916

HAMATOSPICULUM DICRURI Tubangui, 1934.

Under skin of head of bird (*Dicrurus hottentottus balicassius*). Novaliches, Rizal, Luzon.
Reference: 188.

HAMATOSPICULUM LETICIAE Tubangui, 1934.

Under skin of head and neck of bird (*Halcyon chloris*). Novaliches, Rizal, Luzon.
Reference: 188.

HAMATOSPICULUM OTOMELARUM Tubangui, 1934.

Under skin of head and neck and between trachea and œsophagus of bird (*Otomela lucionensis*). Baao, Camarines Sur, Luzon.
Reference: 188.

Subfamily DIPLOTRIAENINÆ Skrjabin, 1916

Genus DIPLOTRIAENA Railliet and Henry, 1909

DIPLOTRIAENA CORRUGATA Wehr, 1930.

Probably body cavity of bird (*Ptilopyga basilanica basilanica*). Exact locality not specified.
Reference: 220.

DIPLOTRIAENA PYCNONOTI Tubangui, 1934.

Subcutaneous tissue of bird (*Pycnonotus goiavier goiavier*). Sipocot, Camarines Sur, Luzon.
Reference: 188.

Subfamily DICHEILONEMATINÆ Wehr, 1935

Genus **SERRATOSPICULUM** Skrjabin, 1916

SERRATOSPICULUM THORACIS Tubangui, 1934.

Squamofilaria thoracis of CHITWOOD and CHITWOOD, 1938.

Walls of thoracic and abdominal cavities of bird (*Falco peregrinus ernesti*). Manila, Luzon.

References: 45a, 188.

Genus **SETARIA** Viborg, 1795

SETARIA EQUINA (Abildgaard, 1789).

Abdominal cavity and cæcum of horse. Widely distributed.

References: 49a, 156, 174.

SETARIA LABIATO-PAPILLOSA (Alessandrini, 1838).

Filaria cervina DUJARDIN, 1845.
Filaria labiato-papillosa ALESSANDRINI, 1838.
Filaria papillosa of PHALEN and NICHOLS, 1909.

Abdominal cavity and rumen of cattle. Widely distributed.

References: 38, 88, 122, 150, 163, 174.

Subfamily APROCTINÆ Yorke and Maplestone, 1926

Genus **APROCTA** von Linstow, 1883

APROCTA ROTUNDATA (von Linstow, 1903).

Intestine of bird (*Centropus viridis*). Exact locality not specified.

Reference: 154.

Genus **CHANDLERELLA** Yorke and Maplestone, 1926

CHANDLERELLA LEPIDOGRAMMI Tubangui and Masilungan, 1937.

Coelom of bird (*Lepidogrammus cumingi*). Virac, Albay, Luzon.

Reference: 203.

Family ACANTHOCHEILONEMATIDÆ Faust, 1939

Subfamily ACANTHOCHEILONEMATINÆ Faust, 1939

Genus **WUCHERERIA** Da Silva Araujo, 1877

WUCHERERIA BANCROFTI (Cobbold, 1877) Seurat, 1921.

Filaria bancrofti COBBOLD, 1877.
Microfilaria bancrofti (COBBOLD, 1877).
Filaria nocturna MANSON, 1891.
Filaria philippinensis ASHBURN and CRAIG, 1906.

Adults in lymphatic vessels and lymph glands; free microfilariæ in lymph and blood stream, of man. Mosquito vector:

Culex quinquefasciatus. Bicol Provinces and other places in Luzon; Samar; Leyte; Bohol; Negros Occidental; Iloilo; Mindanao.

References: 1, 18, 29, 30, 30a, 39b, 74, 98, 116, 120, 121, 122, 163, 217, 228a.

Subfamily DIROFILARIINÆ Wehr, 1935

Genus **DIROFILARIA** Railliet and Henry, 1911

DIROFILARIA IMMITIS (Leidy, 1856).

Wuchereria immitis of ST. JOHN and SIMMONS, 1931.

Heart and pulmonary artery of dog. Mosquito vectors: *Culex quinquefasciatus* and *Aedes aegypti.* Widely distributed.

References: 122, 138, 154, 164, 174.

Subfamily ONCHOCERCINÆ Leiper, 1911

Genus **ELAEOPHORA** Railliet and Henry, 1912

ELAEOPHORA POELI (Vryburg, 1897).

Aorta of cattle and carabao. Widely distributed.

References: 88, 150.

FILARIOIDEA INSUFFICIENTLY KNOWN

MICROFILARIA of Dy and Soriano, 1940.

Blood stream of domestic chicken. Manila, Luzon.

Reference: 52.

Class NEMATOMORPHA (Vejdovsky, 1886) Ritchie, 1915

Subclass GORDIACEA von Siebold, 1848

Family CHORDODIDÆ May, 1920

Genus **CHORDODES** Creplin, 1847

CHORDODES ORNATUS (Grenacher, 1868).

Gordius ornatus GRENACHER, 1868.

Presumably body cavity of Mantis. Exact locality not specified.

Reference: 73.

Genus **PARAGORDIUS** Camerano, 1897

PARAGORDIUS VARIUS (Leidy, 1851).

Only free-living stage known. Exact locality not specified.

Reference: 154.

PHYLUM UNCERTAIN

Class ACANTHOCEPHALA Rudolphi, 1808

Order PALAEACANTHOCEPHALA (Meyer, 1931)

Family RHADINORHYNCHIDÆ Travassos, 1923

Genus FILISOMA Van Cleave, 1928

FILISOMA RIZALINUM Tubangui and Masiluñgan, 1946.

Intestine of fish (*Scatophagus argus*). Malabon, Rizal, Luzon.

Reference: 207.

Family POLYMORPHIDÆ Meyer, 1931

Subfamily POLYMORPHINÆ Meyer, 1931

Genus POLYMORPHUS Luehe, 1911

POLYMORPHUS FRONTOSPINOSUS Tubangui, 1935.

Intestine of bird (*Nycticorax nycticorax nycticorax*). Novaliches, Rizal, Luzon.

Reference: 189.

Subfamily CENTRORHYNCHINÆ (Van Cleave, 1916)

Genus CENTRORHYNCHUS Luehe, 1911

CENTRORHYNCHUS INSULARIS Tubangui, 1933.

Intestine of birds (*Haliastur indus intermedius, Butastur indicus,* and *Spilornis cheela palawanensis*). Novaliches, Rizal and Iriga, Camarines Sur, Luzon; Palo, Leyte.

Reference: 186.

Genus PSEUDOPORRORCHIS Joyeux and Baer, 1935

PSEUDOPORRORCHIS CENTROPUSI (Tubangui, 1933).

Echinorhynchus centropusi TUBANGUI, 1933.

Intestine of birds (*Centropus viridis* and *Dasylophus superciliosus*). Novaliches, Rizal and Los Baños, Laguna; Luzon.

References: 89, 186.

Subfamily PLAGIORHYNCHINÆ Meyer, 1931

Genus PROSTHORHYNCHUS Kostylew, 1915

PROSTHORHYNCHUS LIMNOBAENI Tubangui, 1933.

Intestine of bird (*Porzana fusca fusca*). Novaliches, Rizal, Luzon.

Reference: 186.

PROSTHORHYNCHUS PITTARUM Tubangui, 1935.

Intestine of bird (*Pitta atricapilla*). Novaliches, Rizal, Luzon.

Reference: 189.

Genus OLIGOTERORHYNCHUS Monticelli, 1914

OLIGOTERORHYNCHUS MALAYENSIS Tubangui, 1935.

Intestine of bird (*Rallus rallus philippensis*). Novaliches, Rizal, Luzon.

Reference: 189.

Family DIPLOSENTIDÆ Tubangui and Masiluñgan, 1937

Genus DIPLOSENTIS Tubangui and Masiluñgan, 1937

DIPLOSENTIS AMPHACANTHI Tubangui and Masiluñgan, 1937.

Intestine of fish (*Amphacanthus oramin*). Mucielagos Bay, Mindanao.

Reference: 201.

Family LEIPERACANTHIDÆ Bhalerao, 1937

Genus LEIPERACANTHUS Bhalerao, 1937

LEIPERACANTHUS GALLINARUM Bhalerao, 1937.

Intestine of domestic chicken. Manila, Luzon.

Reference: 207.

Order ARCHIACANTHOCEPHALA (Meyer, 1931)

Family GIGANTORHYNCHIDÆ Hamann, 1892

Genus EMPODIUS Travassos, 1916

EMPODIUS TURNIXENA Tubangui, 1933.

Intestine of bird (*Turnix ocellata*). Novaliches, Rizal, Luzon.

Reference: 186.

Genus MEDIORHYNCHUS (Van Cleave, 1916)

MEDIORHYNCHUS SIPOCOTENSIS Tubangui, 1935.

Intestine of bird (*Penelopides panini manillae*). Sipocot, Camarines Sur, Luzon.

Reference: 189.

Family MONILIFORMIDÆ Van Cleave, 1924

Genus MONILIFORMIS Travassos, 1915

MONILIFORMIS MONILIFORMIS (Bremser, 1811).

Intestine of rat (*Rattus norvegicus*). Widely distributed.

References: 154, 182.

Family OLIGACANTHORHYNCHIDÆ Southwell and Macfie, 1925

Genus OLIGACANTHORHYNCHUS Travassos, 1915

OLIGACANTHORHYNCHUS POMATOSTOMI (Johnston and Cleland, 1911).

Echinorhynchus pomatostomi JOHNSTON and CLELAND, 1911.

Under skin of neck of birds (*Rallus rallus philippensis* and *Excalfactoria chinensis lineata*). Novaliches, Rizal, Luzon.

Reference: 186.

Genus MACRACANTHORHYNCHUS Travassos, 1916

MACRACANTHORHYNCHUS HIRUDINACEUS (Pallas, 1781).

Intestine of domestic pig and wild pig (*Sus philippensis*). Widely distributed.

References: 49a, 151.

Genus NEPHRIDIORHYNCHUS Meyer, 1931

NEPHRIDIORHYNCHUS PALAWANENSIS Tubangui and Masiluñgan, 1938.

Intestine of pangolin (*Manis javanica*). Palawan.

Reference: 204.

Order EOACANTHOCEPHALA Van Cleave, 1936

Suborder NEOACANTHOCEPHALA Van Cleave, 1936

Family NEOECHINORHYNCHIDÆ Van Cleave, 1919

Genus NEOECHINORHYNCHUS Hamann in Stiles and Hassall, 1904

NEOECHINORHYNCHUS OCTONUCLEATUS Tubangui, 1933.

Intestine of fresh-water fish (*Therapon argenteus*). Los Baños, Laguna, Luzon.

Reference: 186.

LIST OF HOSTS AND THEIR PARASITES

MAMMALS

Man (*Homo sapiens* Linnæus):

Ancylostoma braziliense.
Ancylostoma caninum.
Ancylostoma duodenale.
Ascaris lumbricoides.
Bertiella studeri.
Cheilospirura sp.
Clonorchis sinensis.
Diorchitrema pseudocirrata.
Diphyllobotrium latum.
Dipylidium caninum.
Echinococcus granulosus.
Echinostoma ilocanum.
Enterobius vermicularis.
Fasciola gigantica.
Fasciola hepatica.
Fasciolopsis buski.
Gastrodiscoides hominis.
Haplorchis calderoni.
Haplorchis taichui.
Haplorchis vanissima.

Man (*Homo sapiens* Linnæus)—Continued.

Haplorchis yokogawai.
Hymenolepis diminuta.
Hymenolepis nana.
Necator americanus.
Paragonimus westermani.
Plagiorchis philippinensis.
Raillietina (Raillietina) garrisoni.
Raillietina (Raillietina) madagascariensis.
Schistosoma japonicum.
Sparganum sp.
Spelotrema brevicaeca.
Strongyloides stercoralis.
Syngamus laryngeus.
Syphacia obvelata.
Taenia (Taenia) solium.
Taenia (Taeniarhynchus) saginata.
Trichuris trichiura.
Wuchereria bancrofti.

Monkey [*Pithecus philippinensis* (Geoffroy)]:
(= *Macacus cynomolgus* Thomas).

Bertiella studeri.
Haplorchis yokogawai.
Oesophagostomum bifurcum.
Schistosoma japonicum.
Subulura cynomolgi.

Cat (*Felis catus domesticus* Linnæus):

Ancylostoma braziliense.
Ancylostoma caninum.
Centrocestus formosanus.
Clinostomum abdoni.
Diorchitrema pseudocirrata.
Diphyllobothrium mansoni.
Dipylidium caninum.
Gnathostoma spinigerum.
Haplorchis calderoni.
Haplorchis pumilio.
Haplorchis sisoni.
Haplorchis taichui.
Haplorchis yokogawai.
Heterophyopsis expectans.
Microlistrum sp.
Opisthorchis wardi.
Paragonimus westermani.
Physaloptera pacitae.
Pygidiopsis genata.
Schistosoma japonicum.
Stictodora guerreroi.
Stictodora manilensis.
Stictodora sawakinensis.
Taenia (Hydatigera) taeniaformis.
Toxocara cati.

Dog (*Canis familiaris* Linnæus):

Ancylostoma braziliense.
Ancylostoma caninum.
Apophallus eccentricus.
Bertiella studeri.
Centrocestus formosanus.
Chlamydonema praeputiale.
Diorchitrema pseudocirrata.
Diphyllobothrium mansoni.
Dipylidium buencaminoi.
Dipylidium caninum.
Dirofilaria immitis.
Echinococcus granulosus.
Gnathostoma spinigerum.
Haplorchis calderoni.
Haplorchis pumilio.
Haplorchis sisoni.
Haplorchis taichui.
Haplorchis yokogawai.
Heterophyopsis expectans.
Pygidiopsis genata.
Pygidiopsis marivillai.
Schistosoma japonicum.
Spirocerca lupi.
Stictodora guerreroi.
Stictodora manilensis.
Stictodora palmifera.
Stictodora sawakinensis.
Taenia (Taenia) hydatigena.
Taenia (Taenia) pisiformis.
Toxascaris leonina.
Toxocara canis.
Trichuris vulpis.

Civet (*Paradoxurus philippinensis* Jourdan):

Gnathostoma spinigerum.
Molineus asiaticus.
Rictularia paradoxuri.
Sparganum philippinensis.
Uncinaria philippinensis.

Squirrel Rat [*Crateromys schadenbergi* (Meyer)]:

Gongylonema sp.

Rat [*Rattus norvegicus* (Erxleben)]:

(= *Mus norvegicus* Erxleben).

Capillaria hepatica.
Echinostoma guerreroi.
Echinostoma ilocanum.
Echinostoma murinum.
Gongylonema neoplasticum.
Heterakis spumosa.
Hymenolepis diminuta.
Hymenolepis nana.
Moniliformis moniliformis.
Nippostrongylus muris.
Plagiorchoides potamonides.[2]
Paragonimus westermani.
Protospirura muricola.
Raillietina (Raillietina) garrisoni.
Rictularia whartoni.
Schistosoma japonicum.
Strongyloides ratti.
Syphacia obvelata.
Taenia (Hydatigera) taeniaformis.
Trichosomoides crassicauda.

Domesticated Pig (*Sus scrofa domesticus* Linnæus):

Ascaris lumbricoides.
Ascarops strongylina.
Globocephalus longemucronatus.
Globocephalus samoensis.
Globocephalus urosubulatus.
Gnathostoma doloresi.
Gnathostoma hispidum.
Hyostrongylus rubidus.
Macracanthorhynchus hirudinaceus.
Metastrongylus elongatus.
Metastrongylus salmi.
Necator americanus.
Oesophagostomum dentatum.
Oesophagostomum longicaudum.
Physocephalus sexalatus.
Schistosoma japonicum.
Stephanurus dentatus.
Strongyloides suis.
Taenia (Taenia) hydatigena.
Taenia (Taenia) solium.
Trichuris trichiura.

Wild Pig (*Sus philippensis* Nehring):

Macracanthorhynchus hirudinaceus.

Cattle (*Bos taurus* Linnæus):

Bunostomum phlebotomum.
Bunostomum trigonocephalum.
Carmyerius gregarius.
Cotylophoron cotylophorum.
Dicrocoelium dendriticum.
Dictyocaulus viviparus.
Echinococcus granulosus.
Elaeophora poeli.
Eurytrema ovis.
Fasciola gigantica.
Fasciola hepatica.
Fasciolopsis sp.
Fischoederius elongatus.
Gastrothylax crumenifer.
Haemonchus contortus.
Homalogaster paloniae.
Mecistocirrus digitatus.
Moniezia benedeni.
Moniezia expansa.
Neoascaris vitulorum.
Oesophagostomum columbianum.
Oesophagostomum radiatum.
Oesophagostomum sp.
Parafilaria bovicola.
Paramphistomum anisocotylea.
Paramphistomum cervi.

[2] From a laboratory white rat.

Cattle (*Bos taurus* Linnæus)—Continued.

Paramphistomum explanatum.
Paramphistomum sp.
Schistosoma japonicum.
Setaria labiato-papillosa.
Syngamus laryngeus.
Taenia (*Taeniarhynchus*) *saginata.*
Thelazia rhodesi.
Trichuris ovis.

Carabao (*Bubalus bubalis* Linnæus):

Avitellina bubalinae.
Carmyerius gregarius.
Cotylophoron cotylophorum.
Echinococcus granulosus.
Elaeophora poeli.
Fasciola gigantica.
Fasciola hepatica.
Fischoederius elongatus.
Gastrothylax crumenifer.
Moniezia benedeni.
Neoascaris vitulorum.
Paramphistomum anisocotylea.
Paramphistomum explanatum.
Schwartziella nodulosa.
Syngamus laryngeus.

Sheep (*Ovis aries* Linnæus):

Bunostomum phlebotomum.
Bunostomum trigonocephalum.
Eurytrema ovis.
Fasciola gigantica.
Fasciola hepatica.
Haemonchus contortus.
Moniezia expansa.
Moniezia trigonophora.
Oesophagostomum columbianum.
Trichuris ovis.

Goat (*Capra hircus* Linnæus):

Bunostomum phlebotomum.
Bunostomum trigonocephalum.
Fasciola gigantica.
Fasciola hepatica.
Haemonchus contortus.
Moniezia expansa.
Oesophagostomum columbianum.
Oesophagostomum radiatum.
Oesophagostomum venulosum.
Schistosoma japonicum.
Trichuris ovis.

Horse (*Equus caballus* Linnæus):

Anoplocephala mamillana.
Anoplocephala perfoliata.
Gyalocephalus capitatus.
Habronema megastoma.
Habronema microstoma.
Habronema muscae.
Oesophagodontus robustus.
Oxyuris equi.
Parascaris equorum.
Poteriostomum imparidentatum.
Poteriostomum ratzii.
Probstmayria vivipara.
Schistosoma japonicum.
Setaria equina.
Strongylus (*Alfortia*) *edentatus.*
Strongylus (*Delafondia*) *vulgaris.*
Strongylus (*Strongylus*) *equinus.*
Trichonema auriculatum.
Trichonema bicoronatum.
Trichonema calicatum.
Trichonema catinatum.
Trichonema catinatum var. *pseudocatinata.*
Trichonema coronatum.
Trichonema elongatum.
Trichonema euproctum.
Trichonema goldi.
Trichonema goldi var. *tridentata.*
Trichonema insigne.
Trichonema labiatum.
Trichonema leptostomum.
Trichonema longibursatum.
Trichonema minutum.
Trichonema nassatum.
Trichonema nassatum var. *parva.*
Trichonema pateratum.
Trichonema radiatum.
Trichonema ultrajectinum.
Triodontophorus minor.
Triodontophorus serratus.

Bat [*Scotophilus temminckii* (Horsfield)]:

Platynosomum philippinorum.
Prosthodendrium luzonicum.
Prosthodendrium ovimagnosum.

Flying Lemur [*Cyanocephalus volans* (Linnæus)]:

(= *Galeopithecus philippinensis* Waterhouse).

Auchenacantha boholi.
Auchenacantha corollata.
Auchenacantha hoepplii.

Dugong (*Dugong dugon* Mueller):

Opisthotrema dujonis.

Pangolin (*Manis javanica* Desmarest):

Nephridiorhynchus palawanensis.

BIRDS

Wild Chicken (*Gallus gallus gallus* Linnæus):

Raillietina (Paroniella) tinguiana.

Domestic Chicken (*Gallus gallus domesticus* Linnæus):

Amoebotaenia sphenoides.
Ascaridia compar.
Ascaridia galli.
Brachylaemus malayensis.
Capillaria annulata.
Capillaria retusa.
Cheilospirura hamulosa.
Cotugnia digonophora.
Cotugnia sp.
Davainea proglottina.
Dispharynx spiralis.
Echinostoma revolutum.
Episthmium gallinum.
Gongylonema ingluvicola.
Heterakis beramporia.
Heterakis gallinae.
Hymenolepis carioca.
Leiperacanthus gallinarum.
Microfilaria sp.
Notocotylus intestinalis.
Oxyspirura mansoni.
Philophthalmus problematicus.
Prosthogonimus cuneatus.
Prosthogonimus pseudopellucidus.
Raillietina (Fuhrmannetta) echinobothrida.
Raillietina (Raillietina) tetragona.

Quail [*Excalfactoria chinensis lineata* (Scopoli)]:

Oligacanthorhynchus pomatostomi.

Button Quail [*Turnix ocellata* (Scopoli)]:

Empodius turnixena.

Pigeon (*Treron* sp.):

Raillietina (Raillietina) daetensis.

Turtle Dove [*Streptopelia bitorquata dussumieri* (Temminck)]:

Aporina delafondi.
Cotugnia ilocana.
Raillietina (Raillietina) sequens.

Domestic Pigeon (*Columba livia domestica* Linnæus):

Cotugnia rimandoi.
Raillietina (Raillietina) torquata var. *rajae.*
Tamerlania bragai.

Rail [*Rallus rallus striatus* (Linnæus)]:

[= *Hypotaenidia striata* (Linnæus)].

Leucochloridium hypotaenidiarum. *Metorchis caintaensis.*

Rail [*Rallus rallus philippensis* (Linnæus)]:

[= *Hypotaenidia philippensis* (Linnæus)].

Metorchis caintaensis.
Oligacanthorhynchus pomatostomi.
Oligoterorhynchus malayensis.
Stomylotrema rotunda.

Rail (*Rallus rallus torquatus* Linnæus):

[= *Hypotaenidia torquata* (Linnæus)].

Echinochasmus novalichesensis.

Crake [*Rallina eurizonoides eurizonoides* (Lafresnaye)]:

Glaphyrostomum rallinarum.

Crake [*Porzana fusca fusca* (Linnæus)]:

[= *Limnobaenus fuscus* (Linnæus)].

Prosthorhynchus limnobaeni.

Moorhen (*Gallinula chloropus lozanoi* Lletget):

Diorchis visayana.
Echinostoma batanguensis.
Echinostoma chloropodis var. *philippinensis.*

Tern (*Sterna albitrons sinensis* Gmelin):

Spelotrema brevicaeca. *Tetracotyle bicolandiae.*

Laughing Gull (*Larus ridibundus* Linnæus):

Stictodora guerreroi. *Stictodora manilensis.*

Plover [*Pluvialis dominica fulva* (Gmelin)]:

(= *Charadrius fulvus* Gmelin).

Echinostoma charadrii.

Plover [*Ochthodromus mongolus mongolus* (Pallas)]:

Acanthoparyphium ochthodromi. *Gyrocoelia paradoxa.*

Redshank [*Tringa totanus eurhinus* (Oberholser)]:

[= *Totanus eurhinus* (Oberholser)].

Cyclocoelium (*Postpharyngeum*) *orientale* var. *eurhina.*

Snipe [*Capella gallinago gallinago* (Linnæus)]:

[= *Gallinago gallinago* (Linnæus)].

Austrobilharzia bayensis. *Pseudapatemon mamilliformis.*

Snipe [*Capella gallinago megala* (Swinhoe)]:

(= *Gallinago megala* Swinhoe).

Haploparaxis sanjuanensis.

Snipe [*Rostratula benghalensis benghalensis* (Linnæus)]:
Fuhrmanniella clerci.

Heron (*Ardea purpurea manilensis* Meyen):
[= *Pyrrherodia manilensis* (Meyen)].
Centrocestus formosanus. *Haplorchis yokogawai.*

Egret [*Herodias timoriensis* (Lesson)]:
Nephrostomum bicolanum.

Egret [*Bubulcus ibis coromandus* (Boddaert)]:
Centrocestus formosanus. *Posthodiplostomum larai.*
Haplorchis taichui. *Nephrostomum bicolanum.*
Haplorchis yokogawai. *Pegosomum bubulcum.*

Night Heron [*Nycticorax nycticorax nycticorax* (Linnæus)]:
Polymorphus frontospinosus.

Lesser Man-O'-War Bird [*Fregata ariel ariel* (Grey)]:
Heterophyopsis expectans. *Mesostephanus fregatus.*

Monkey-eating Eagle [*Pithecophaga jefferyi* (Grant)]:
Phagicola pithecophagicola.

Serpent Eagle [*Spilornis cheela palawanensis* (Selster)]:
[= *Spilornis bacha* (Daudin)].
Centrorhynchus insularis.

Tic-Wee Buzzard [*Butastur indicus* (Gmelin)]:
Centrorhynchus insularis. *Parastrigea intermedia.*
Kowalewskiella buzzardia. *Strigea mcgregori.*
Neodiplostomum butasturinum.

Sea Eagle [*Haliæetus leucogaster* (Gmelin)]:
Pygidiopsis marivillai.

Kite (*Haliastur indus intermedius* Blyth):
Centrorhynchus insularis. *Mesostephanus haliasturus.*

Falcon (*Falco peregrinus ernesti* Sharpe):
Serratospiculum thoracis.

Barred Owl [*Strix whiteheadi* (Sharpe)]:
Haplorchis yokogawai.

Grass Owl [*Aluco longimembris* (Jerdon)]:
Neodiplostomum aluconis.

Kingfisher [*Halcyon chloris* (Boddaert)]:
Hamatospiculum leticiae.

Tarictic [*Penelopides panini manillae* (Boddaert)]:
Mediorhynchus sipocotensis.

Red-winged Coucal [*Centropus viridis* (Scopoli)]:
Aprocta rotundata. *Pseudoporrorchis centropusi.*

Rough-crested Cuckoo [*Dasylophus superciliosus* (Cuvier)]:
Brachylaemus sp. *Pseudoporrorchis centropusi.*
Leucochloridium dasylophi.

Cuckoo [*Lepidogrammus cumingi* (Fraser)]:
Chandlerella lepidogrammi.

Cuckoo sp.
Ascaridia subequalis.

Woodpecker [*Lichtensteinipicus funebris* (Valenciennes)]:
Raillietina (Paroniella) cirroflexa.

Woodpecker (*Thriponax* sp.):
Ceratospira thriponaxis. *Thelazia philippinensis.*

Black-headed Pitta (*Pitta atricapilla* Lesson):
Prosthorhynchus pittarum.

Bulbul [*Iole philippinensis philippinensis* (Gmelin)]:
[= *Iole gularis* (Pucheran)].
Hymenolepis sp.

Guava Bulbul [*Pycnonotus goiavier goiavier* (Scopoli)]:
Diplotriaena pycnonoti. *Raillietina (Paroniella) bulbularum.*
Hymenolepis pycnonoti.

Babbler [*Ptilopyga basilanica basilanica* (Steere)]:
Diplotriaena corrugata.

Shrike [*Otomela lucionensis* (Linnæus)]:
Hamatospiculum otomelarum.

Oriole (*Oriolus chinensis chinensis* Linnæus):
(= *Oriolus acrorhynchus* Vigors).
Raillietina (Paroniella) culiauana.

Drongo [*Dicrurus hottentottus balicassius* (Linnæus)]:
Hamatospiculum dicruri.

Philippine Crow (*Corvus coronoides philippinus* Bonaparte):
[= *Corone philippina* (Bonaparte)].
Hymenolepis coronoidis. *Raillietina (Paroniella) coronea.*

Domesticated Duck [*Anas boschas domestica* (Linnæus)]:
Echinoparyphium recurvatum. *Notocotylus naviformis.*
Echinostoma revolutum. *Philophthalmus rizalensis.*
Notocotylus intestinalis. *Psilochasmus longicirratus.*

REPTILES

Crocodile (*Crocodilus porosus* Schneider):

Acanthostomum atae.
Acanthostomum elongatus.
Harmotrema rudolphii.
Pseudoneodiplostomum crocodilarum.

Turtle [*Cyclemis amboinensis* (Daudin)]:

Cercorchis cyclemidis.
Spironoura duyagi.

Python [*Python reticulatus* (Schneider)]:

Bothridium pithonis.
Styphlodora renalis.

Cobra (*Naja naja philippinensis* Taylor):

Harmotrema eugari.
Kalicephalus sp.

Water Snake (*Lapemis hardwickii* Gray):

Opisthorchis ophidiarum.

Monitor [*Varanus salvator* (Laurenti)]:

Duthiersia fimbriata.
Euparadistomum varani.
Scyphocephalus secundus.

Aquatic Lizard [*Hydrosaurus pustulosus* (Eschscholtz)]:

Cissophyllus leytensis.
Paradistomum paloensis.

Lizard (*Mabuya multifasciata* Kuhl):

Mesocoelium meggitti.
Oochoristica excelsa.

Lizard [*Calotes marmoratus* (Gray)]:

Paradistomum excalotes.

House Lizard (*Hemidactylus frenatus* Dumeril and Bibron):

Paradistomum gregarinum.
Posthorchigenes ovatus.

AMPHIBIANS

Frog (*Rana vittigera* Wiegmann):

Diphyllobothrium mansoni.
Diplodiscus amphichrus.
Glypthelmins staffordi.
Pleurogenoides taylori.

Frog (*Rana magna* Stejneger):

Clinostomum pseudoheterostomum.
Oxysomatium ranae.
Physaloptera amphibia.

FISHES

Eel (*Anguilla mauritiana* Bleeker):

Bothriocephalus travassosi.
Galactosomum anguillarum.

Catfish (*Arius manillensis* Cuvier and Valenciennes):

Opegaster minimus.

Hito [*Clarias batrachus* (Linnæus)]:

Opegaster minimus.
Orientocreadium batrachoides.

Halfbeak (*Hemiramphus georgii* Cuvier and Valenciennes):

Haplorchis calderoni.
Haplorchis yokogawai.
Heterophyopsis expectans.
Stictodora guerreroi.

Mudfish (*Ophicephalus striatus* Bloch):

Centrocestus formosanus.
Clinostomum dalagi.
Clinostomum ophicephali.
Euclinostomum multicaecum.
Gnathostoma spinigerum.
Haplorchis calderoni.
Haplorchis pumilio.
Haplorchis taichui.
Haplorchis yokogawai.
Opegaster minimus.

Perch [*Anabas testudineus* (Bloch)]:

Centrocestus formosanus.
Diorchitrema pseudocirrata.

Silverside (*Atherina balabacensis* Seale):

(= *Hepsetia balabacensis* Jordan and Hubbs).

Haplorchis calderoni.

Mullet (*Mugil* sp.):

Diorchitrema pseudocirrata.
Haplorchis calderoni.
Haplorchis yokogawai.
Heterophyopsis expectans.
Pygidiopsis genata.
Pygidiopsis marivillai.

Threadfin [*Eleutheronema tetradactylum* (Shaw)]:

Haplorchis calderoni.

Cavalla [*Caranx speciosus* (Forskal)]:

Metabronema caranxi.

Scomberoides sp.

Ectenurus lemeriensis.

Ambassis buruensis Bleeker:

Haplorchis calderoni.
Haplorchis pumilio.
Haplorchis yokogawai.
Heterophyopsis expectans.
Microlistrum sp.
Stictodora guerreroi.
Stictodora manilensis.

Sea Bass (*Anyperodon leucogrammicus* Cuvier and Valenciennes):

Ancyrocephalus manilensis.

Snapper (*Lutjanus* sp.):

(= *Lutianus lioglossus* of Tubangui, 1925).

Ancyrocephalus manilensis.
Tetrancistrum lutiani.

Grunt [*Pomadasys hasta* (Bloch)]:

(= *Pristipoma hasta* Guenther):

Azygia pristipomai.

Therapon argenteus (Cuvier and Valenciennes):

Gnathostoma spinigerum.
Neoechinorhynchus octonucleatus.
Opegaster minimus.

Therapon plumbeus (Kner):

Centrocestus formosanus.
Echinochasmus novalichesensis.
Haplorchis pumilio.
Haplorchis sisoni.

Pelates quadrilineatus (Bloch):

Haplorchis calderoni.
Heterophyopsis expectans.
Stictodora manilensis.

Sillago maculata (Quoy and Gaimard):

Stictodora palmifera.

Silver Perch (*Gerris filamentosus* Cuvier and Valenciennes):

Haplorchis calderoni.
Haplorchis pumilio.
Heterophyopsis expectans.
Stictodora manilensis.

Silver Perch (*Gerris kapas* Bleeker):

Haplorchis yokogawai.
Heterophyopsis expectans.

Scatophagus argus (Linnæus):

Filisoma rizalinum.

Amphacanthus javus (Linnæus):

(= *Teuthis javus* Bleeker).

Haplorchis calderoni.
Haplorchis pumilio.
Haplorchis yokogawai.
Hexangium affinum.

Amphacanthus virgatus Cuvier and Valenciennes:

(= *Teuthis virgata* Guenther).

Ancyrocephalus manilensis.
Microcotyle virgatarum.

Amphacanthus oramin Bloch and Schneider:

Diplosentis amphacanthi.

Lepidaplois mesothorax (Bloch and Schneider):

Scaphanocephalus adamsi.

Ophiocara aporos Bleeker:

Echinochasmus novalichesensis.

Bia (*Glossogobius giurus* Buchanan-Hamilton):

Azygia pristipomai.
Centrocestus formosanus.
Echinochasmus novalichesensis.
Ectenurus lemeriensis.
Gnathostoma spinigerum.
Haplorchis calderoni.
Haplorchis pumilio.
Neochasmus microvatus.
Opegaster minimus.
Prosorhynchus triangularis.

Creisson validus Jordan and Seale:

Haplorchis calderoni.

ARTHROPODS

River Crab [*Parathelphusa* (*Barythelphusa*) *mistio* (Rathbun)]:

Paragonimus westermani.
Plagiorchoides potamonides.

Cyclops (*Encyclops*) *serrulatus* Fischer:

Diphyllobothrium mansoni. *Gnathostoma spinigerum.*

Cyclops (*Microcyclops*) *bicolor* G. O. Sars:

Diphyllobothrium mansoni. *Gnathostoma spinigerum.*

Cockroach (*Panesthia javanica* Serville):

Aorurus philippinensis.
Blattophila sphaerolaima var. *javanica.*
Leidynema nocalum.
Leidynemella paracranifera.
Thelastoma palmettum.

Mosquito (*Culex quinquefasciatus* Say):

(= *Culex fatigans* Wied.).

Dirofilaria immitis. *Wuchereria bancrofti.*

Mosquito [*Aedes aegypti* (Linnæus)]:

(= *Stegomyia fasciata* Fabricius).

Dirofilaria immitis.

Grasshopper [*Aeolopus tamulus* (Fabricius)]:

Cheilospirura hamulosa.

Grasshopper (*Oxya sinensis* Walker):

Cheilospirura hamulosa.

Mantis:

Chordodes ornatus.

SNAILS

Lymnaea (*Galba*) *philippinensis* Nevill:

Fasciola gigantica. *Fasciola hepatica.*

Lymnaea (*Radix*) *swinhoe* var. *quadrasi* Moellendorff:

(=*Lymnaea peregra* Mueller of Tubangui, 1932).

Echinostoma murinum.
Echinostoma revolutum.
Fasciola gigantica.

Mixas cumingiana (Pfeiffer):

[= *Amphipeplea cumingiana* (Pfeiffer)].

Fasciola gigantica.

Anisus (*Gyraulus*) *convexiusculus* (Hutton):

(= *Gyraulus prashadi* Faustino).

Echinostoma ilocanum.

Melania asperata philippinensis Sowerby:

Cercaria maquilingi. *Cercaria melaniasperata.*

Melania sp.:

Cercaria maquilingi.
Cercaria melaniasperata.
Cercaria parvomelaniae.
Cercaria philippindica.

Pila luzonica (Reeve):

(= *Ampullaria lagunaensis* Bartsch).

Cercaria dorsocauda.
Cercaria lagunaensis.
Cercaria maitimensis.
Cercaria rarissima.
Cercaria redicystica.
Echinostoma ilocanum.

Oncomelania quadrasi (Moellendorff):

[= *Blanfordia quadrasi* (Moellendorff)].

(= *Oncomelania hydrobiopsis* Rench).

[= *Schistosomophora quadrasi* (Moellendorff)].

Schistosoma japonicum.

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ERRATUM

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No. 3 of the present volume, printed in 1944, was erroneously paged; the first page of this number should have followed the last page of No. 2. Therefore, to avoid confusion in the index to No. 1 and No. 3, pages 1–68 of the latter *should read* 157–224, and page 3 of the first article *should read* 159.

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